

5316 Deep Valley Run Raleigh, NC 27606 Phone: 919-859-4544

### **Underground Storage Tank Closure (UST-12)**

for

### Former Service Station 500 S. Blount St. Raleigh, North Carolina

prepared for:

N. C. Department of Environment & Natural Resources UST Section

October 11, 2003

Geological & Environmental Consulting

Professional Geologist • Registered Environmental Manager • Certified Environmental Inspector

# Underground Storage Tank Closure Report (UST-12) Former Service Station 500 S. Blount Street Raleigh (Wake County), North Carolina

The following Underground Storage Tank (UST-12) Closure Report is submitted in the required format:

#### A. General Information

- 1. Facility Information
  - Former Service Station (recently purchased by City of Raleigh No facility ID Number. No USTs were registered at this location 500 S. Blount St.
     Raleigh, North Carolina 27601
     The facility is located in Wake County.
  - Date of Report is October 10, 2003
  - The UST owner is the City of Raleigh (purchased tract shortly before removal of the USTs:
     City of Raleigh Contact: Mr. Greg Pittman
     Real Estate
     P. O. Box 590
     Raleigh, North Carolina 27602
     Phone: (919) 890-3087 (Mr. Greg Pittman)
  - UST operator is unknown. The property was owned by the Household of Ruth and Virtue Lodge.

#### 2. Contacts

- Mr. Greg Pittman, Real Estate, City of Raleigh at P. O. Box 590, Raleigh, NC, 27602. Mr. Pittman's phone number is (919) 890-3087.
- GeoLogix, Inc. (919) 859-4544 5316 Deep Valley Run Raleigh, NC 27606

- Mr. Rob Livermon (919) 859-4544
   GeoLogix, Inc.
   5316 Deep Valley Run
   Raleigh, North Carolina 27606
- GeoChem, Inc. Environmental Laboratories (919) 460-8093
   2500 Gate Way Centre Boulevard, Suite 300
   Morrisville, North Carolina 27560
   State Certification Number of GeoChem is No. 336.

#### 3. UST Information

Tank	Installation Date	Size in Gallons	Tank Dimensions	Last Contents	Previous Contents
N/A	Unknown	2,000	L= 14' 0" D= 5' 0"	Gasoline	None known
N/A	Unknown	2,000	L= 14' 0" D= 5' 0"	Gasoline	None known
N/A	Unknown	1,000	L = 11' 6" D = 3' 10"	Used Motor Oil	None known
N/A	Unknown	275	L= 4' 6" D= 3' 4"	Kerosene (?)	None known

#### 4. Site Characteristics

- There are no known past releases at this site location.
- Most recently, the office portion of the former service station was being utilized as an office for a towing and parking service. The tenant leasing the space moved from the property in mid-July, 2003. Accordingly, the business was inactive at the time of UST removal. It is believed that the USTs were last used sometime during the 1970's.
- The surrounding property is generally urban consisting of residences (single and multi-family), convenience store, lodge hall, car detail shop, parking deck, parking lots, and open areas.

The general geology of this area would be described as metamorphic injected gneisses of the Raleigh Belt. Rocks would generally consist of biotite gneiss and schist intruded by sills and dikes of granite and pegmatite. Soils encountered during excavation of the four USTs consisted of brownish-orange to reddish-brown silty clays. Near the bottom of the post-UST removal excavation, saprolitic material (weathered gneiss and/or granite) was encountered.

- Regarding a receptor survey, a potable water well is located at the Wake County Office Building in the 300 block of Fayetteville Street Mall. It is within 1000 feet of the source area. A detailed receptor survey was not performed since a requirement of at least Phase I of a Limited Site Assessment (LSA) is anticipated. A release was identified during closure of the USTs and associated supply pipelines.

#### B. Closure Procedures

- In preparation for closure, a UST-3 was submitted to the N. C. Department of 1. Environment and Natural Resources (DENR) Central Office and the Raleigh Regional Office by GeoLogix, Inc. The City of Raleigh Fire Marshall was notified in advance of the tank excavation, and a Fire Marshall was present at the site during UST removal. The location of a former dispenser island was observed in the parking area, but there were no dispensers situated on the island. OK Enterprises pumped a total of 1,090 gallons of product, fuel/water mixture and sludge from the USTs. There was no product in the underground pipelines. The USTs were transported to OK Enterprises shop in Elon, NC, for later transportation to a scrap metal dealer. The tanks were vacuumed/cleaned out by OK Enterprises on site, so little additional tank cleaning was necessary off of the premises. The small USTs were vented by puncturing the top of the tanks using a trackhoe claw. The tanks were eventually cut up at the OK Enterprises shop and transported to Lee Scrap Iron and Metal, Inc., in Sanford, NC, for disposal.
- 2. Approximately 1,090 gallons of fuel/water mixture and sludge was pumped from the tanks. Most of the product came from a full (to the neck) used oil tank containing roughly 1,000 gallons. Product was vacuumed from the tanks by OK Enterprises. The materials vacuumed out were transported to the Shamrock Corporation in Brown's Summit, NC, for processing/recycling. Sludge was so tightly packed on the bottom third of the tank that special scraping and steam cleaning was necessary to condition the sludge such that it could be removed.

#### 3. Excavation

The top of the USTs were uncovered by digging to a depth at the top of the tank. Then, digging began along both sides of the tank until more than one-half of the tank was exposed. Each UST was then rolled from its position and pulled from the excavation. There was generally one large excavation on site. A low, thin wall of soil separated the area where two 2,000-gallon USTs were buried parallel to one another on the front (east) side of the building from the former location of the 1,000gallon used oil UST. Soil contamination was initially encountered during removal of the two 2,000-gallon gasoline USTs and the 1,000-gallon used oil UST. Excavation beyond what would normally be necessary to excavate the USTs was conducted. During excavation of contaminated soil from around the two 2,000-gallon gasoline USTs and the former dispenser island location, a 275-gallon UST was discovered near the sidewalk at E. Cabarrus St. not far from the intersection of E. Cabarrus St. and S. Blount St. The UST likely contained either gasoline or kerosene when used years ago. The final dimensions of the excavation where all of the USTs, pipelines, and the soil underneath the former dispenser island were removed was not uniform. The longest and widest areas of excavation was approximately 55' long and 30' wide. Obvious soil contamination was also indicated in the excavation made specifically to remove the 1,000-gallon UST. Accordingly, digging beyond what was necessary to excavate that UST was also conducted. The two 2,000gallon UST's fuel supply lines led from the USTs to dispensers. The used oil UST was apparently filled through a fill pipe/receptacle located at the ground surface near one of the garage bay doors. Supply/product lines which were encountered did not contain product. Any contaminated soil which may have existed around the pipelines was excavated during the excavation project conducted after UST removal. Soils encountered in the UST excavation where the 2,000-gallon gasoline USTs were formerly situated did not appear contaminated until the soils underneath the bottom of the USTs were exposed. A strong petroleum odor was present after the USTs were removed as confirmed by field screening. Lab analyses of soil samples confirmed contamination at nearly every location where UST closure samples were obtained, and some contamination remained after post-UST removal excavations were completed. An inspection of the 2,000-gallon gasoline USTs after removal indicated that the USTs were in poor condition. It appears that much of the contamination in that excavation area may have resulted from rusted/pitted tanks. Other contamination may have originated from leaking pipelines. The 1,000-gallon used oil tank was also in poor condition, as was the 275-gallon UST found later during post-UST removal excavation. A number of holes were observed in those tanks.

On-site readings taken with a Thermo 580B organic vapor monitor indicated soil contamination above action levels in generally all locations after UST removals. The source of the release(s) in the gasoline USTs is thought to be the tanks and possibly the fuel supply pipelines. The used oil and 275-gallon USTs are also thought to have leaked due to their poor condition.

- The tops of the two 2,000-gallon gasoline USTs were buried approximately 2.0 feet beneath ground level. The top of the used oil UST was buried roughly 1.5 feet below ground level. The top of the 275-gallon UST appeared to be located roughly 3.0 feet below the ground level.
- A total of 622.39 cubic yards of soil was excavated during removal of the USTs and the obviously-contaminated soil removed after the USTs were excavated and removed. The excavated contaminated soil was stockpiled to the side of the excavation, and removal to a land farm and/or bio treatment facility began concurrently with soil excavation.
- Soils encountered during removal of the UST were classified as brownish-orange to reddish-brown silty clays typical of soils resulting from weathered injected metamorphosed igneous rocks in this area.
- Clean fill dirt was brought to the site as contracted by OK Enterprises. The source of backfill was tailings from the Wake Stone Quarry in Cary, NC, and from borrow pits used for clean fill and topsoil by Brinley's Grading and various other subcontracted trucking companies. The combined soil and quarry tailings were used to backfill the excavations.
- Visible observations indicated that all four of the USTs removed from the property were in poor condition. Holes and pitted areas were observed.
- No water was observed/encountered in the excavation pit except after a torrential rainshower as excavations were nearing an end.

#### 4. Contaminated Soil

- Visibly contaminated soil was observed during excavation and soil sampling around the used oil UST. The odor of gasoline/petroleum fumes from soil in proximity to the former gasoline tanks, pipelines, and former dispenser island were the best indicators of soil contamination in those areas. Contaminated soil was encountered at generally every sampling point upon removal of all USTs. Excavation of the USTs proceeded according to standard practice. Once soil necessary to facilitate tank removal was excavated, it was obvious that additional soil would ultimately need to be excavated. In addition, instructions from the City of Raleigh representative were that the City desired a "clean site", and to excavate soils accordingly. Excavation continued until either soils were indicated by field screening as not/less contaminated, or until excavation was no longer feasible due to (1) safety or (2) the possibility of affecting the structural integrity of the street/sidewalk.
- Soil removed during excavation of the USTs and post-UST removal was stockpiled adjacent to the excavation areas. Stockpiled soil did not remain on site long as it was removed in a timely manner using a series of dump and tandem trucks. The soils were obviously contaminated from the odors present as well as appearance, but the contamination was confirmed using a Thermo 580B organic vapor monitor. Clean fill material and quarry tailings were used to backfill both excavations.

### C. Site Investigation

#### 1. Field Screening

- The physical characteristics of the soil samples generally appeared normal for the Piedmont area, that is, ranging from brown, to orangetan, to reddish-brown silty clays to saprolitic materials above bedrock. A strong petroleum odor was associated with soils in the excavation.
- Representative samples of soil obtained were placed in plastic baggies and allowed to heat in the sun on the hood of a vehicle or the parking surface. The baggies were then opened and a Thermo 580B organic vapor monitor was used to detect volatizing product in soil samples.
- It is assumed that the Thermo 580B instrument was calibrated at the offices of EnviroSupply and Services from which it was rented.

The Thermo 580B indicated soil contamination as confirmed by the later laboratory analyses performed on multiple soils samples. The Thermo 580B recorded some readings higher and some readings lower than the actual laboratory analyses. Some readings on the Thermo 580B for various soil samples "pegged the meter". See table in Section G of this report for selected representative site readings.

#### 2. Documentation of soil sampling

Based on the length of the 2,000-gallon gasoline tanks and the 1,000-gallon used oil UST, two soil samples were obtained for analysis from near each end of both tanks. The samples were obtained roughly 18-24" into the native soil below the former centerline of the USTs. One soil sample was taken from beneath the newly-discovered 275-gallon UST. Samples were taken from underneath both gasoline dispensers, from underneath the gasoline pipelines, and the gasoline area and used oil area excavated stockpiles. Samples were obtained from a representative core of soil taken from the bucket of the trackhoe, or where safe, using a hand auger. A composite sample of the stockpiled soil was obtained.

For UST closures, soil samples taken from underneath the two 2,000-gallon gasoline USTs were labeled depending upon their orientation. The northernmost UST was called "North-UST", and the location of the sample, depending on whether it was at the east or west end was added as a suffix. For example, the sample from underneath the east end of the northernmost tank was labeled "North-UST-E". Samples taken from both ends of the used oil UST were labeled by noting either the east or west ends of the tanks. Dispenser samples were all taken roughly 18"-24" into native soils below the projected location of the former dispensers in the old dispenser island. A pipeline sample was taken underneath the gasoline pipeline between the top of the gasoline tanks and the former dispenser island area. The soil underneath the gasoline pipeline(s) was removed during excavations following tank removal.

Due to the volume of contaminated soil on site as anticipated from on-site field analyses, and due to directions from City of Raleigh personnel, excavation of contaminated soil began almost concurrently with completion of UST closure excavations. After soil excavation concluded late on the second day on site, soil samples were taken, as directed by DENR Raleigh Regional Office UST Section personnel, for analysis using Purgeable Organic Compounds and Aliphatic and Aromatic compounds by EPA Methods 8260 and VPH for gasoline associated samples, and Methods 8260, VPH, 8270 b/n, and EPH for used oil samples.

Samples earmarked for 8260 and VPH analyses were obtained using En Core samplers. Samples to be analyzed by other methods were obtained by hand auger, trackhoe bucket, or grab composites and placed in soil jars. All samples were kept on ice in a cooler for later transportation to the environmental analytical laboratory. The locations of the samples obtain for post-excavation analyses is depicted in the Figures in Section F of this report. As for post-excavation sampling, according to instructions from Raleigh Regional Office UST Section personnel, soil samples were taken generally from the base of the excavation sidewalls.

Samples from the base of the excavation wall were taken at the south end of the excavation where the used oil tank was previously located, and in the north end of the excavation where the small kerosene (?) UST was found and removed. Those two soil samples were analyzed using Methods 8260, VPH, 8270 b/n, and EPH.

Soil samples were taken roughly every twenty (20) feet along the base of the excavation sidewalls. Samples were obtained from the excavation bottom.

- Soil samples were obtained from underneath both ends and the center of where the 2,000-gallon gasoline USTs were located, from underneath both ends of the used oil UST, and one was obtained from underneath the small kerosene (?) UST previously located near the intersection corner. Soil samples were obtained from one location along the former gasoline supply pipelines. There was no used oil pipeline. A fill cap/pipe was located in the concrete in front of Bay No. 1. Composite soil samples were obtained from the stockpiled material.
- Closure soil samples from the UST excavation pits and underneath the supply lines using the bucket of the trackhoe, or where safe, were obtained with a hand auger. Stockpile samples were composites taken from six locations in the each stockpile.
- For all four USTs, closure soil samples from the excavation pits were obtained roughly 18-24" into native soil below the centerline of each former UST location, supply pipeline, and former dispenser location.
- The samples from underneath the USTs, the supply pipelines, from underneath dispensers, and from stockpiles were obtained on the dates and at the times noted on the chain-of-custody records contained in Appendix F of this report.

- The soil samples were taken from underneath both ends of the two 2,000-gasoline USTs, and from underneath both ends of the 1,000-gallon used oil UST. One sample was taken from beneath the kerosene (?) UST. The soil samples are entitled according to the location where they were taken in accordance with the sketch later in this UST-12 report. Samples beneath USTs were generally obtained between 18-24" below the former tank location. The pipeline sample was taken roughly 18-24" below the gasoline supply pipeline.
- Please see combined Table Nos. 2 & 3 in Section G of this report for a synopsis of soil sample analyses results. Lab results for both (1) UST closure samples and (2) post-UST soil removal excavation samples are also contained in Appendix G of this report.

#### Groundwater sampling information

 No surface water or groundwater samples were obtained as part of the UST closure. No surface or groundwater was encountered.

#### 4. Quality control measures

- Some soil samples were placed in zip-loc bags on site for field analyses using the GeoTherm. Compliance UST closure samples and post-excavation samples were placed in soil jars (with the exception of Method 8260 and VPH samples stored in En Core samplers) and placed in a cooler with ice on site. Samples obtained from the site were transported to GeoChem Environmental Laboratories for analyses.
- The trackhoe bucket and/or hand auger was used to obtain soil samples from underneath USTs, pipelines, dispensers, and for the post-UST removal soil excavation. A hand auger or using a clean hand trowel to obtain closure samples (TPH 3550 and 5030) from a clean core of soil in a trackhoe bucket were used to obtain soil samples. The hand auger inside and hand trowel were cleaned between sampling using clean cloths and a solution of hexane.
- Soil samples were submitted to GeoChem Laboratories on August 1, 2003. See Appendix F for lab chain-of-custody copies.
- No samples were collected for quality control, and accordingly, there was no effect on any observations made at the site.

#### 5. Investigative results

For closure samples, soil samples obtained from underneath the gasoline USTs and associated dispensers and pipelines were analyzed using TPH 5030. Soil samples obtained from underneath the small kerosene (?) UST and used oil UST were analyzed using both TPH 3550 and TPH 5030. Chromium and lead analyses were conducted on soil samples associated with the used oil UST.

For post-excavation samples, soil samples obtained from the sidewalls and bottom of the excavation were analyzed using Methods 8260 and VPH. Soil samples obtained from the excavation sidewalls and bottom of the excavation in proximity to the former locations of the kerosene (?) and used oil USTs were analyzed using Methods 8260, VPH, 8270 b/n, and EPH.

Three of the four soil samples taken from underneath the two 2,000-gallon gasoline USTs indicated levels above 10 mg/kg for TPH 5030. The gasoline pipeline sample and dispenser (southeast) sample were also above 10 mg/kg. The sample taken from below the kerosene (?) UST previously located near the street corner exhibited 1,210 mg/kg for TPH 3550, and 1,767 mg/kg for TPH 5030. The sample taken from the east end of the Used Oil UST indicated 225 mg/kg for TPH 3550, and 143 mg/kg for TPH 5030. The sample taken from the west end of the Used Oil UST indicated 432 mg/kg for TPH 3550, and 209 mg/kg for TPH 5030. There was no used oil pipeline from which to obtain a sample.

Soil samples associated with the used oil UST were analyzed for chromium and lead. All samples indicated results of Below Detectable Limits (BDL) for chromium. However, one sample indicated the presence of lead. The highest level was 164.4 mg/kg indicated in the used oil stockpile sample. This result was for "total lead". A later TCLP analysis was run on a composite sample of the soil by Earth Tech, one of the two vendors used to receive the contaminated soil. The TCLP indicated that the leachable lead in the soil was less than 0.0113. Please see Table 2 & 3 in Section G for sample analyses results from the UST closure and post-closure excavation samples. The results of the samples apparently point to further action in the form of Phase I of a Limited Site Assessment (LSA).

 No samples were collected for quality control. Thus, there was no effect on interpretations of soil analytical results.

### D. Conclusions and Recommendations

Based on sample analyses, field measurements, and visual observations made during UST closure, soil contamination was identified during excavation/closure of the tanks. Releases appear to have occurred from the two 2,000-gallon USTs. It also appears that releases occurred near the ground surface from around the fill ports and from the supply line piping from the USTs to the dispensers. The two 2,000-gallon USTs were in poor condition. Upon excavation of the USTs which previously contained kerosene (?) and used oil, contaminated soil was visible in soils in proximity to the excavations. The USTs were in poor condition. A number of various size holes were present in both. Leaks could also have occurred from the pipeline serving the kerosene (?) UST previously located near the intersection of E. Cabarrus Street and S. Blount Street.

At the direction of City of Raleigh personnel, excavation of contaminated soils continued after UST removal was accomplished. The goal of the City of Raleigh was to have a "clean site" at this location. As soil excavation proceeded, the strong petroleum odors present, confirmed by field measurements, indicated that petroleum hydrocarbon contamination persisted in soils and saprolitic material (beyond soils) in the excavation walls and below the former location of the USTs.

When it became apparent that a "clean site" would likely not be achieved, soil excavation was halted for (1) safety reasons, and (2) due to the potential to affect the structural stability of adjacent sidewalks and streets. Laboratory analyses indicated that petroleum hydrocarbon contamination exceeded the regulatory threshold levels of 10 mg/kg for both TPH 3550 and TPH 5030 in a number of the samples taken for the UST closures. Post-excavation samples using Methods 8260, 8270 b/n, EPH, and VPH also indicated indicated that a clean site had not been achieved as regulatory thresholds for post-excavation samples were exceeded, especially at the north end of the excavation near the street intersection. Accordingly, it appears that Phase I of a Limited Site Assessment (LSA) will be required in accordance with State of N. C. guidelines. The likelihood of requirement of an LSA has already been related to the City of Raleigh.

E. Signature and Seal of Professional Engineer or Licensed Geologist

Robert H. Livermon, Jr., P. G.

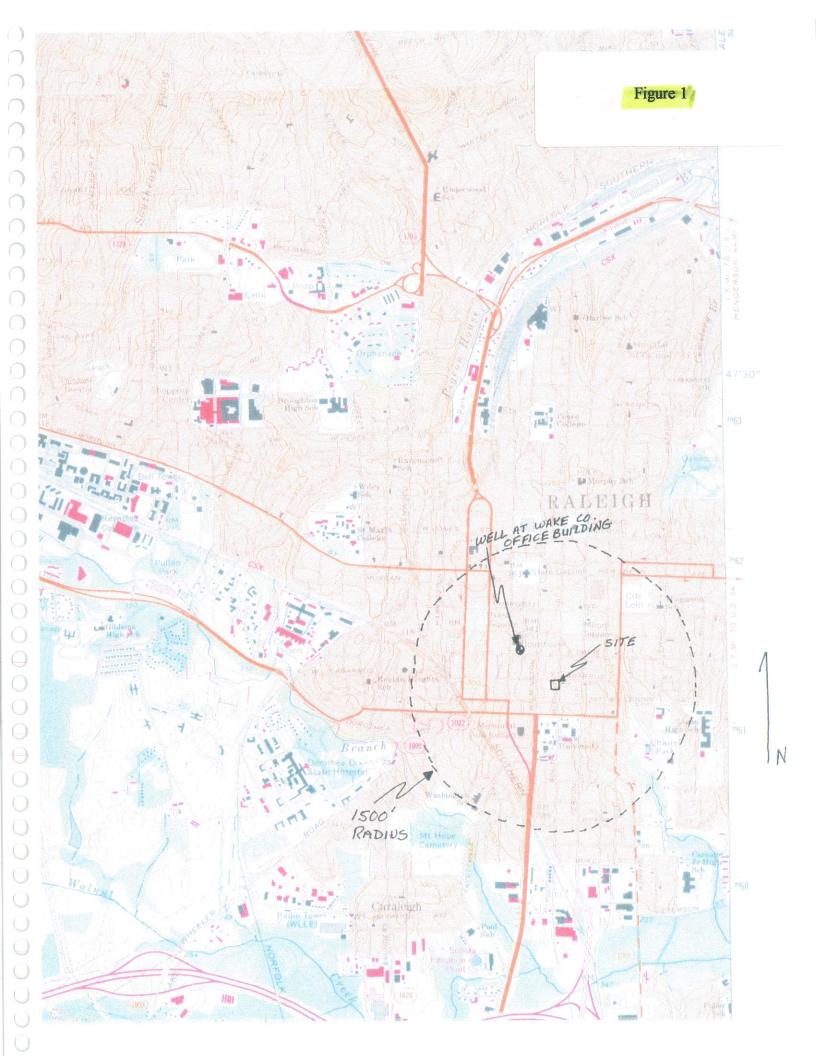
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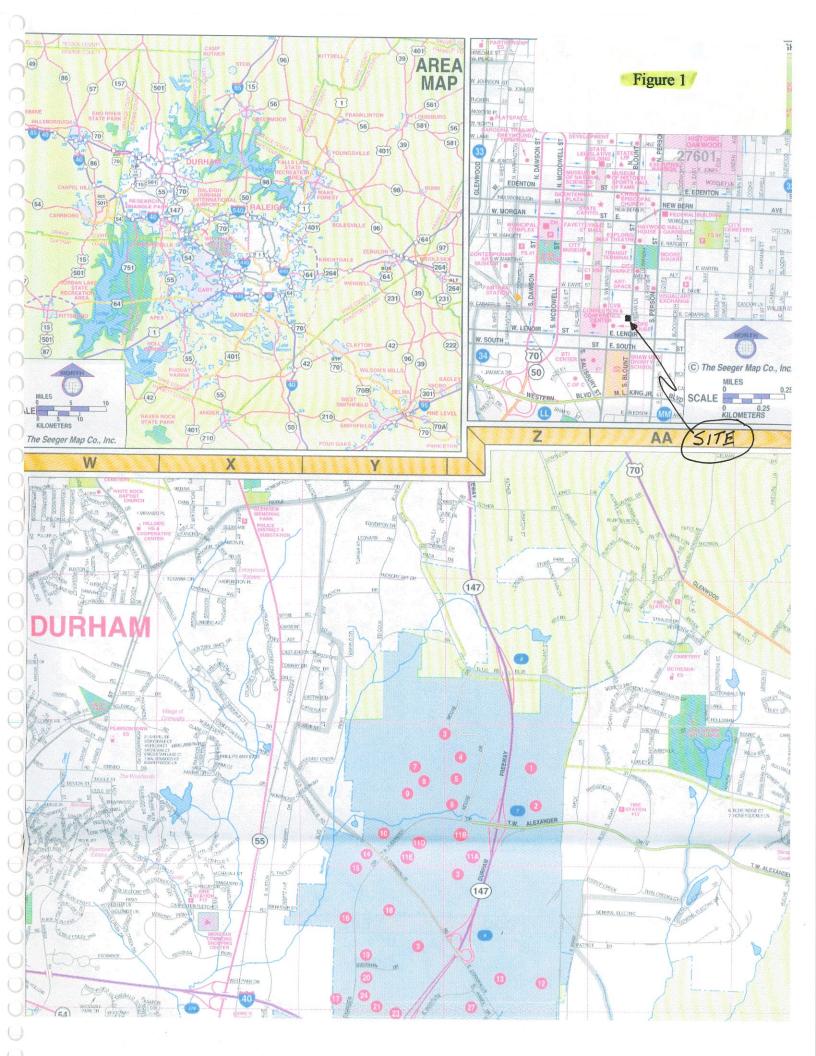
SEAL

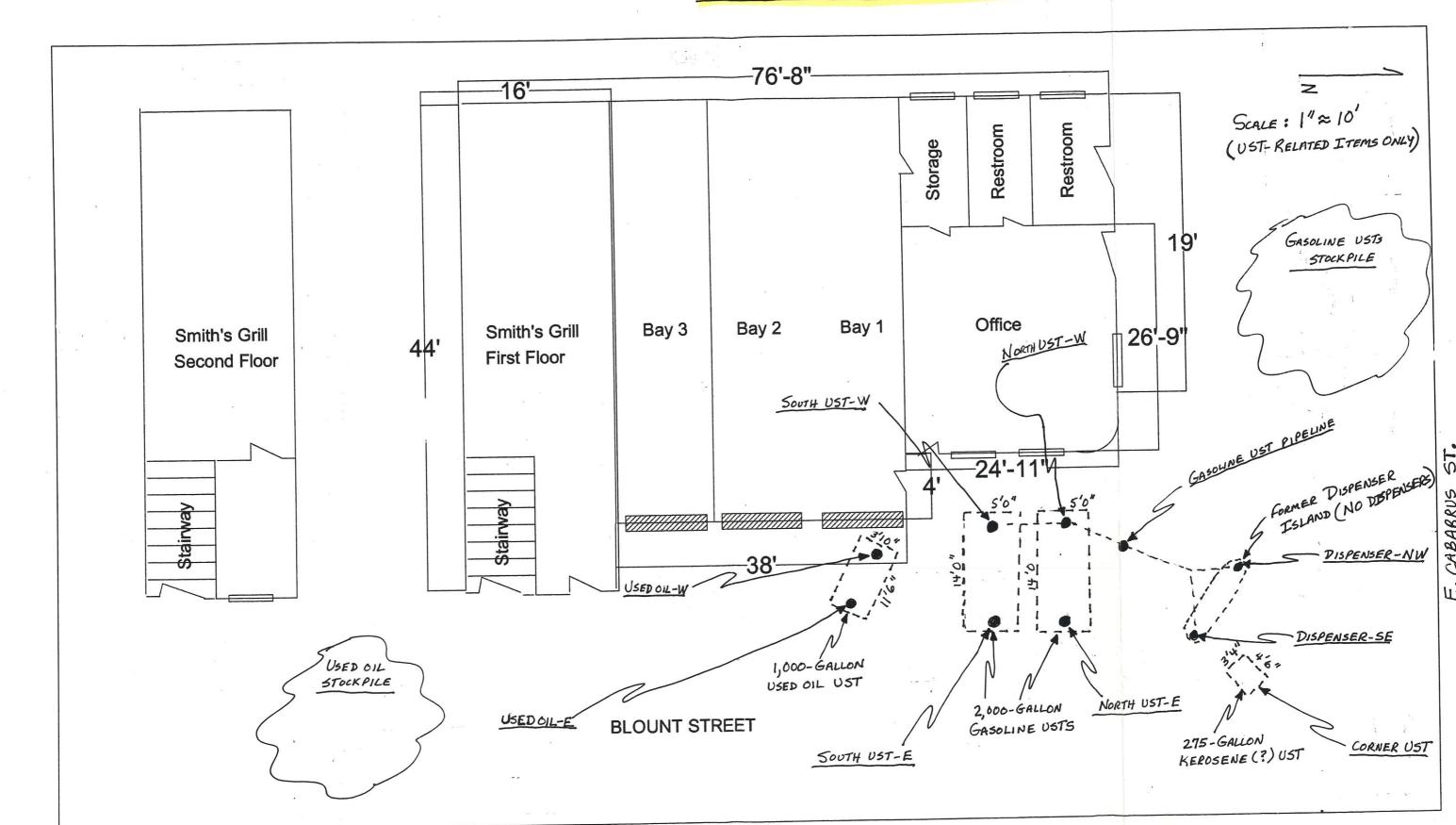
### **GeoLogix**

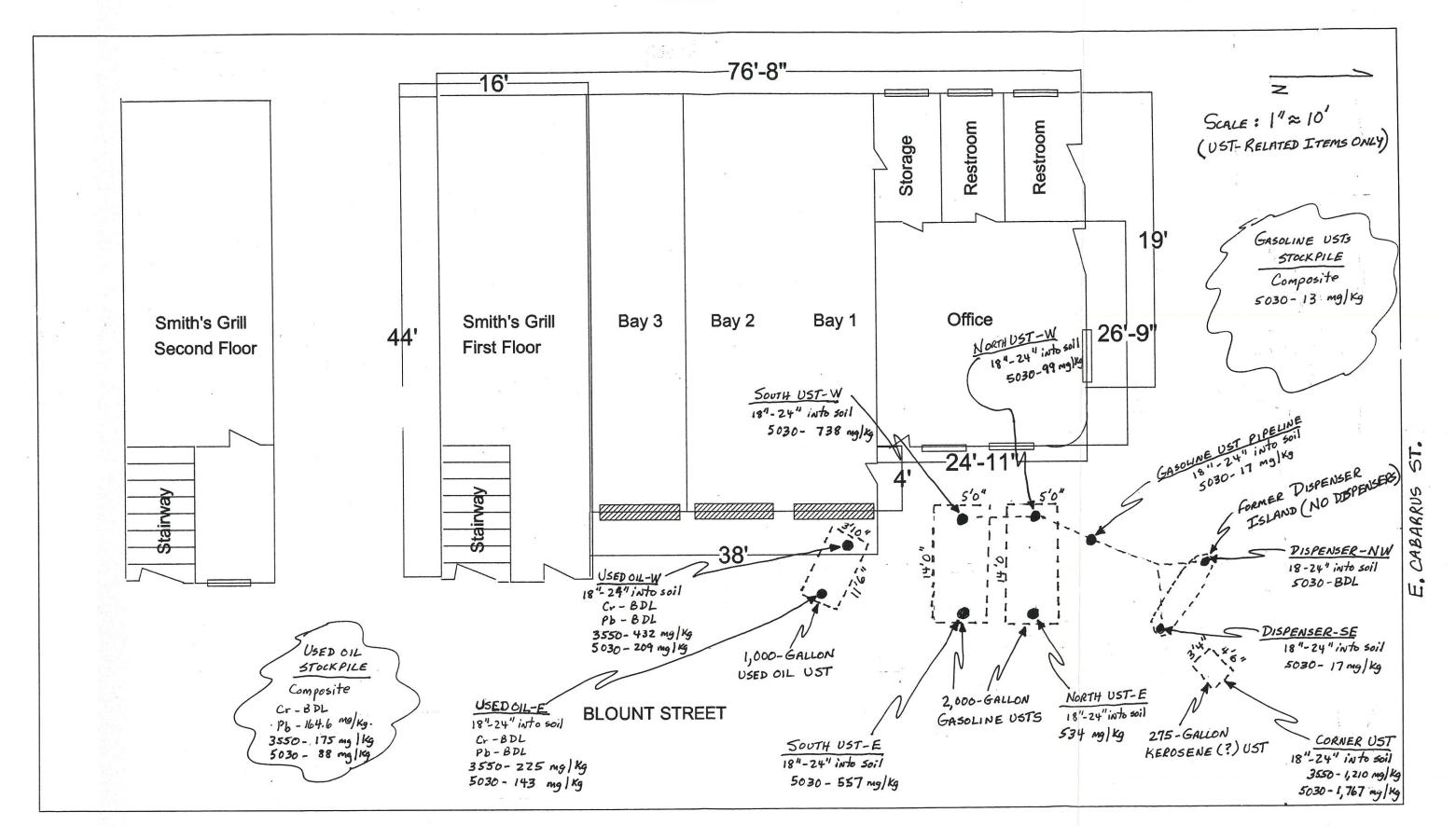
#### F. Figures

- 1. See attached copy of USGS Topographic Map of the Raleigh West Quadrangle for requested information.
- 2. Please see attached sketch of the tank excavation areas for the required information.
- 3. Please see attached sketch depicting the analytical results in relation to the USTs, fuel supply/return pipelines, and dispenser island areas.





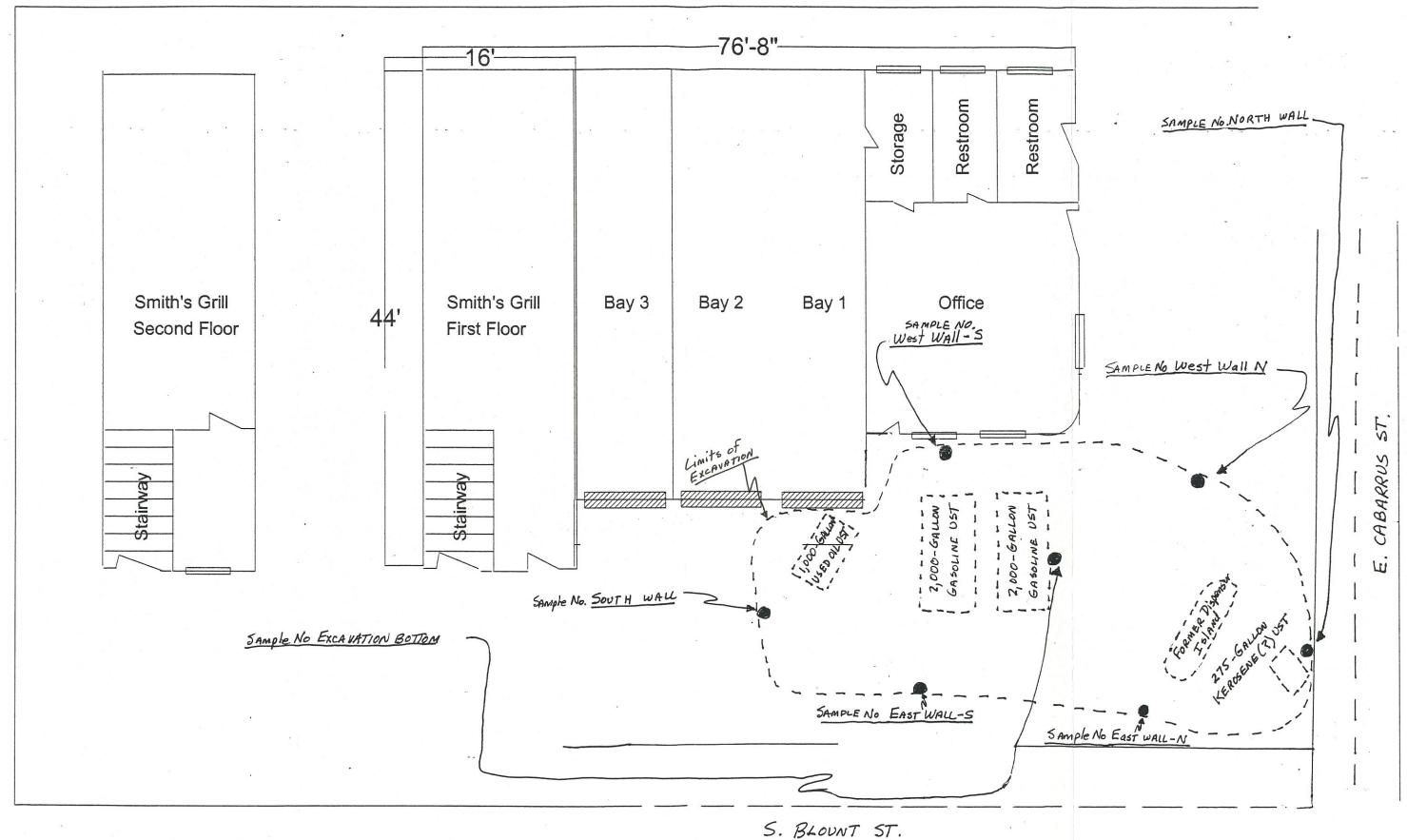




### FIGURE F. 2 POST-EXCAVATION SAMPLES

FORMER GASOLINE STATION 500 S. BLOUNT ST. RALEIGH, NC

SCALE: 1"210'

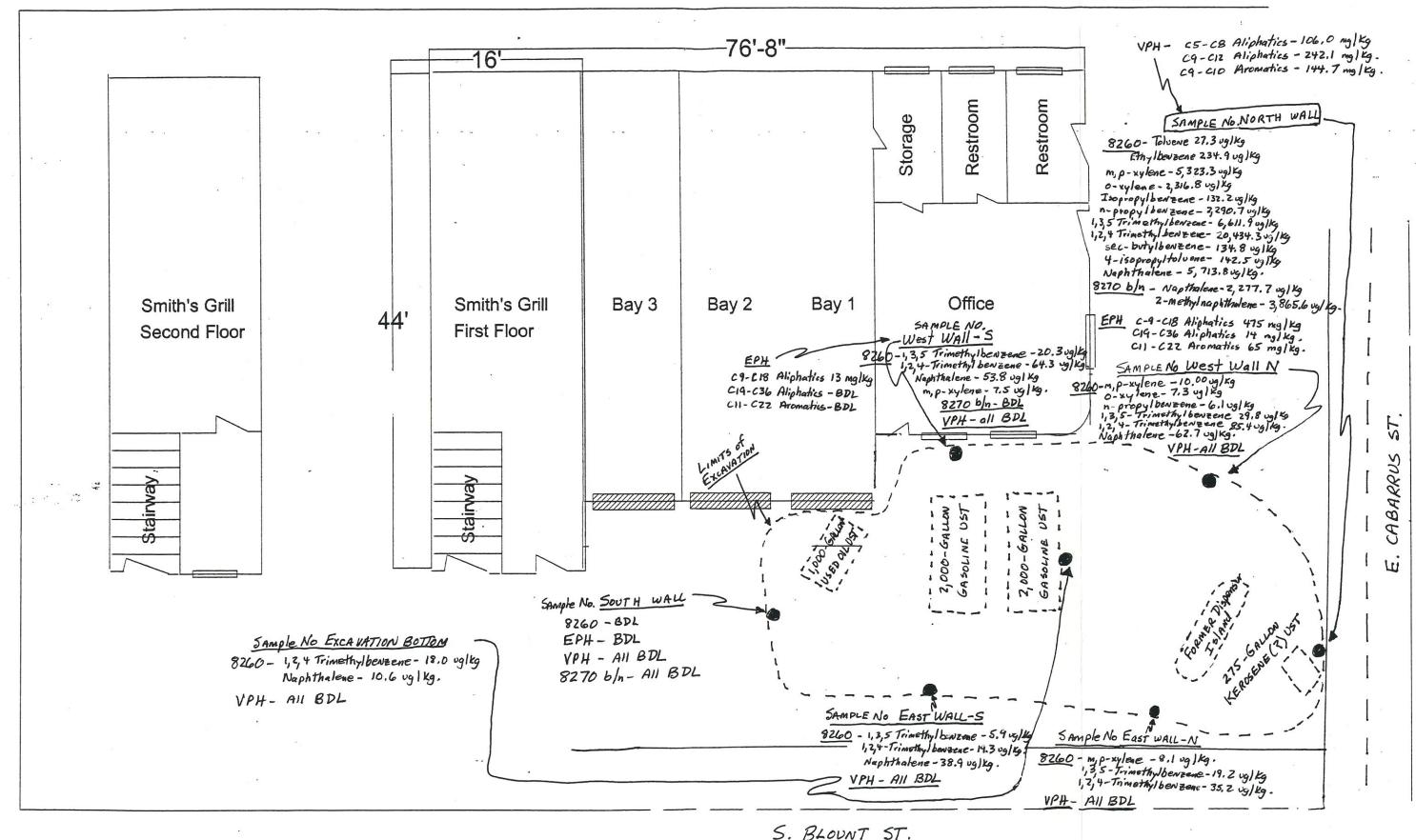


## FIGURE F.3 POST-EXCAVATION SAMPLES

FORMER GASOLINE STATION 500 S. BLOUNT ST. . RALEIGH, NC

ScalE: 1"≈10'

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#### G. Tables

1. A Thermo 580B (Serial No. 60696-328) organic vapor monitor was used to screen soil samples taken at the site. A sample of the many on-site readings taken during post-closure excavation is shown below:

Sample Location	Thermo 580B Reading (ppm)
Exc. North Wall	331
Exc. North Wall	418
Exc. West Wall	52
Exc. West Wall	32
Exc. South Wall	4
Exc. South Wall	4
Exc. East Wall	17
Exc. East Wall	14
Exc. Bottom	7
Exc. Bottom	13

### G. (Continued)

<u>TABLE 2 and 3</u> (information requested has been combined into the following tables)

Sample Identification No.	Date Sample Obtained	Lab Analysis Performed	Depth Sample Obtained	Analysis Results mg/kg
North-UST-E	7-28-03	TPH 5030	18-24" into soil at east end of northern tank	ТРН 5030- 534
North-UST-W	7-28-03	ТРН 5030	18-24" into soil at west end of northern tank	ТРН 5030- 99
South-UST-W	7-28-03	TPH 5030	18-24" into soil at west end of southern tank	ТРН 5030- 738
South-UST-E	7-28-03	TPH 5030	18-24" into soil at east end of southern tank	ТРН 5030- 557
Gas Pipeline	7-28-03	TPH 5030	18-24" into soil beneath pipeline	TPH 5030 - 17
Gas Dispenser- NW	7-28-03	TPH 5030	18-24" into soil under island	TPH 5030 - BDL
Gas Dispenser- SE	7-28-03	TPH 5030	18-24" into soil under island	TPH 5030 - 17
Kerosene (?) UST @ corner	7-28-03	TPH 3550 TPH 5030	18-24" beneath east end of tank	TPH 3550- 1,210 TPH 5030 -1,767
Used Oil - E	7-28-03	TPH 3550 TPH 5030 Cr Pb	18-24" beneath east end of tank	TPH 3550- 225 TPH 5030 - 143 Cr - BDL Pb - BDL

### <u>GeoLogix</u>

Used Oil - W	7-28-03	TPH 3550 TPH 5030 Cr Pb	18-24" beneath west end of tank	TPH 3550- 432 TPH 5030 - 209 Cr - BDL Pb - BDL
Used Oil - Pipeline	7-28-03	TPH 3550 TPH 5030 Cr Pb	18-24" beneath pipeline	TPH 3550- 6,077 TPH 5030 - 553 Cr - BDL Pb - 306.6
Gasoline Excavation - Stockpile No. 1	7-28-03	TPH 5030	Composite of six locations	TPH 5030 - 13
Used Oil UST Excavation - Stockpile	7-28-03	TPH 3550 TPH 5030 Cr Pb	Composite of six locations	TPH 3550 - 175 TPH 5030 - 88 Cr - BDL Pb - 164.4

### POST-EXCAVATION SAMPLES

Sample Location/ Identification	Depth Sample Obtained	Analysis Performed/Results
West Wall - N	13.0'	VPH - BDL 8260 - BDL
West Wall - S	14.0'	VPH - BDL 8260 - m,p-Xylene 7.5 ug/kg 1,3,5-Trimethylbenzene - 20.0 ug/kg 1,2,4 - Trimethylbenzene - 64.3 ug/kg Naphthalene 53.8 ug/kg 8270 b/n - BDL EPH - C9-C18 Aliphatics - 13 mg/kg C19-C36 Aliphatics - BDL C11-C22 Aliphatics - BDL
North Wall	13.5'	VPH - C5-C8 Aliphatics 106.0 mg/kg C9-C12 Aliphatics 242.1 mg/kg C9-C10 Aromatics 144.7 mg/kg 8260 - Toluene - 27.3 ug/kg Ethylbenzene - 234.9 ug/kg m,p-Xylene - 5323.3 ug/kg o-Xylene - 2316.8 ug/kg Isopropylbenzene - 132.2 ug/kg n-propylbenzene - 132.2 ug/kg 1,3,5-Trimethylbenzene - 6611.9 ug/kg 1,2,4-Trimethylbenzene - 20,434.3 ug/kg sec-Butylbenzene - 134.8 ug/kg 4- Isopropyltoluene - 142.5 ug/kg Naphthalene - 5,713.8 ug/kg 8270 b/n - Naphthalene - 2,277.7 ug/kg 2-Methylnaphthalene - 3,865.6 ug/kg EPH - C9-C18 Aliphatics - 475 mg/kg C19-C36 Aliphatics - 14 mg/kg C11-C22 Aliphatics - 65 mg/kg
East Wall - N	13.0'	VPH - BDL 8260 - m,p-Xylene - 8.1 ug/mg 1,3,5-Trimethylbenzene - 19.2 ug/kg 1,2,4-Trimethylbenzene - 35.2 ug/kg
East Wall - S	13.5'	VPH - BDL 8260 - 1,3,5 Trimethylbenzene - 5.9 ug/kg 1,2,4 Trimethylbenzene - 19.3 ug/kg Naphthalene - 38.9 ug/kg

### <u>GeoLogix</u>

South Wall	13.5'	VPH - BDL 8260 - BDL 8270 b/n - BDL EPH - BDL		
Pit Exc. Bottom	14.5'	VPH - BDL 8260 - 1,2,4-Trimethylbenzene - 18.0 mg/kg Naphthalene - 10.6 mg/kg		

### **APPENDIX A**

Notification of Intent:
UST Permanent Closure or Change-in-Service
(Form UST-3)

None of the USTs were operated under a permit or obtained a facility identification number. Accordingly, no UST-3 or UST-2 Forms were submitted

### **APPENDIX B**

Site Investigation Report for Permanent Closure or Change-in-Service of UST (Form UST-2) None of the USTs were operated under a permit or obtained a facility identification number. Accordingly, no UST-3 or UST-2 Forms were submitted

### **APPENDIX C**

Site Specific Health and Safety Plan (HASP)

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	No specific Health & Safety Plan was prepared for this project	
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### APPENDIX D

**Certificate of UST Disposal** 

OKEnterprises, Inc.

PO Box 41169 Greensboro, NC 27404 336-218-1090 O 336-362-1703 M

### Tank Disposal Manifest

OKE Job#

Tank Owner/Authorized Representa	tive: Name & Mailing A	<sub>k</sub> ddress
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City of Rateig L 500 S. Blount Street Rateish, north Carolina

Tank Owner/Authorized Representative:

Contact Robhidermon @ Geologik Inc

Phone #

919 859 4544

Description Tank #	of Tanks: Capacity	Previous Contents	Comments
1	2000 gal.	GASoline	
2	2000 gel	Gasoline	
3	1000 gal	GISED Motor 011	
4	275gal	GASOline?	

Tank Owner/Authorized Representative Certification:

The undersigned certifies that the above listed storage tank(s) have been removed from the premises of the tank owner.

Quint Deack / Rob Liveamor

Quist Orock/ Signature 7/28/03 Date

Transporter: The undersigned certifies that the above listed storage tank(s) have been transported to OKEnterprises, Inc., Greensboro, NC

Side of are

Date

Disposal Certification: The undersigned certifics that the above named storage tank(s) have been cut into scrap pieces and accepted by Lee Iron & Metal, Hwy. 421 S. Sanford, NC.

Standature

Date

### **APPENDIX E**

Soil, Water and Sludge Disposal Manifests

## OXEnterprises. Inc. 1301 Princeton Drive \* Elon, NC \* 336-697-9447

### NON-HAZARDOUS WASTE MANIFEST

Manifest #	728	and the second of the second o	OKE	E Job#		CONTRACTOR
Generator:	596 84	Keleigh quit 5 t nc			Date:	<u> </u>
I certify the and are in t material de	at the materials he proper cond scribed below is terial was delive	ation to be trains s not hazardous ered to the carri	are properly cl ported as specif Waste in accord	ned by the lance with for tran	ic DOT. I certi th the EPA. I c sport to the fa	certify that the
	ping Name	Haz Class	DOT ID #	Qty.	Circle Unit	Container
Description  WATER  USE DATER	of Material			1090	Gallop Tons Other	# Type Tanker Other
Transporter	:: OK Enterprise 1301 Princet Elon, NC 27 8-697-9447	on Drive		Vehic Unit #	#: <u>w/a</u> le License #: <u>f</u> !s: <u>93/306</u> iner: <u>vac.</u>	
Transporter	Certification: certifies that the named and was	he specified man	erial was transfe	er <b>red i</b> n a	ı registered (lic	censed) vehicle to
61	home or 100 long 1 ams Su	Port Bri.			ct: <u>375/18</u>	
Handling M Facility Cer I certify that in the above to handle th Signature:	tification: t the transporte listed handling	r above delivere	d the specified and	material d qualific Date:	50/50 to this facility and by the State	and was handled of

## NON-HAZARDOUS WASTE MANIFEST PETROLEUM CONTAMINATED SOIL

Soilworks, Inc.		Contaminant Class & Type				
12861 NC Highway 96 Nor	th			DOT Class I (Petroleum)		
Zebulon, NC 27597	26E 618A	Gasoline		Av Gas Gasohol		
Phone: (919) 366-1500 Fax: (919)	303-0100	Gasonic	_	DGT Class II (Petroleum)		
NCDENR-DWM PERMIT # SR	-RRO-004	Jet Fuel	O	Kerosene D Diesel D		
NODEN STATE OF STATE		Varsol		Naptha		
		# A D1 (NI	-	DOT Class III (Petroleum) #5 Fuel Oil   #6 Fuel Oil		
	•	# 4 Fuel Oil Motor Oil		Hydraulic Oil □		
		(/10101 011	-	Other (Petroleum Based)		
		Waste Oil	0	Used Oil 🗆		
				Manifest #		
Contractor:	Geologix			<b>Telephone:</b> (919) 859-4544		
	5316 Deep Va	lley Run				
	Raleigh, NC 2	27606				
Generator:	City of Raleig 500 S. Blount Raleigh, NC	Street				
Transporter:	Brinley's Truc	cking, Inc.		-		
	Garner, NC			Gross Weight: 54600		
	KT1			Tare Weight: 23500		
Truck #:	W11			Net Weight: 31100		
Date & Time Weighed:	07/29/03			Equivalent Tons: 15.6		
Date & Time 11 10				(See Attached Weight Ticket)		
Inspected & Accepted by: Date Received:		, anot 7/23)	3 )3	(For SOILWORKS, INC.)		

## NON-HAZARDOUS WASTE MANIFEST PETROLEUM CONTAMINATED SOIL

	PETROLEUM	I CONTAMII	TAP	ATED SOIL
Soilworks, Inc.		<u>C</u>	Contaminant Class & Type	
12861 NC Highway 96 North Zebulon, NC 27597				
				DOT Class I (Petroleum)  Av Gas   Gasohol
Phone: (919) 366-1500 Fax: (91	(9) 365-6180	Gasoline		, Av Oas = =================================
		T 1 T 1	n	DOT Class II (Petroleum)  Kerosene □ Diesel
NCDENR-DWM PERMIT #	SR-RRO-004	Jet Fuel Varsol	0 0	No. 42 Fuel Oil II
		Valsoi	L.	DOT Class III (Petroleum)
		# 4 Fuel Oil	٥	#5 Fuei Oil   #6 Fuel Oil
		Motor Oil		
				Other (Petroleum Based)
		Waste Oil		Used Oil
				Manifest # 2
Contractor:	Geologix			<b>Telephone:</b> (919) 859-4544
	5316 Deep Va	alley Run		
	Raleigh, NC	27606		
Generator:	City of Raleig	gh		
	500 S. Blount	Street		
	Raleigh, NC	27601		
		alian Inc		
Transporter:	Brinley's Tru	icking, inc.		
	3611 Cessna	Drive		
	Garner, NC	27529		Gross Weight: 58760
Truck #:	KT1			Tare Weight: 23500
				Net Weight: 35260
Date & Time Weighed:	07/29/03			Equivalent Tons: 17.6
				(See Attached Weight Ticket)
Inspected & Accepted by:	do	10 B	11	chara (For SOILWORKS, INC.)
-	_V\U	MUZI	10	chara (FOF SOIL WORKS, INC.)
Date Received:	7/2	14/03		

Soilworks, Inc.	PETRODECIA	Contaminant Class & Type						
12861 NC Highway 96 No	rth							
Zebulon, NC 27597	•			DOT Class I (Petroleun	<u>n)</u>			
Phone: (919) 366-1500 Fax: (919)	365-6180	Gasoline		Av Gas	Gasohol 🛚			
FROME: (717) 300 100		-		DOT Class II (Petroleu	m)			
NCDENR-DWM PERMIT # SI	R-RRO-004	Jet Fuel		Kerosene 🛘	Diesel 🎜 #2 Fuel Oil 🛛			
NCDEIVINE TO THE TOTAL T		Varsol		Naptha 🗆				
				DOT Class III (Petroleu #5 Fuei Oil □	#6 Fuel Oil 🛛			
		# 4 Fuel Oil		Hydraulic Oil	#01 do. o			
		Motor Oil	0		id)			
			_	Other (Petroleum Base Used Oil	<u>:u/</u>			
		Waste Oil		Osed Oil -				
				Manifest #	3			
Contractor:	Geologix			Telephone:	(919) 859-4544			
	5316 Deep Va	lley Run		,				
	Raleigh, NC	27606						
Generator:	City of Raleig	<sub>t</sub> h						
Generalis	500 S. Blount	Street						
	Raleigh, NC	27601						
Transporter:	Brinley's Tru	cking, Inc.						
• ·	3611 Cessna	Drive						
	Garner, NC	27529		Gross Weight:	52060			
Truck #:	KT1			Tare Weight:	23500			
				Net Weight:	28560			
Date & Time Weighed:	07/29/03			<b>Equivalent Tons:</b>				
				(See Attached We	ight Ticket)			
Inspected & Accepted by:	Laur	28		chana (For S	OILWORKS, INC.)			
Date Received:	ŀ	7179	1/0	3				

	PETROLLUM	CONTAME			_
Soilworks, Inc.			<u> </u>	Contaminant Class & 1	<u> Type</u>
12861 NC Highway 96 No	orth	l			
Zebulon, NC 27597		1		DOT Class I (Petroleu	
Phone: (919) 366-1500 Fax: (919	) 365-6180	Gasoline		Av Gas	Gasohol 🗆
				DOT Class II (Petroleu	<del></del>
NCDENR-DWM PERMIT # S.	R- <i>RRO-004</i>	Jet Fuel	0	Kerosene 🛘 🗎 Naptha 🔻	Diesel 7 #2 Fuel Oil 0
		Varsol		Naptha   DOT Class III (Petrolet	
•		# 4 Fuel Oil	0	#5 Fuel Oil	#6 Fuel Oil 🛛
		Motor Oil	0	Hydraulic Oil	
				Other (Petroleum Base	<u>ed)</u>
		Waste Oil		Used Oil 🗆	
				Manifest #	4
Contractor	Geologix			Telephone:	(919) 859-4544
	5316 Deep Val	lley Run			
	Raleigh, NC 2	7606			
Generator:	City of Raleigl	h			
	500 S. Blount	Street			
	Raleigh, NC 7	27601			
Transporter:	Brinley's Truc	king, Inc.			
	3611 Cessna I	Orive			
	Garner, NC 2	27529		Gross Weight:	52860
Truck #:	KT1			Tare Weight:	23500
				Net Weight:	29360
Date & Time Weighed:	07/29/03			<b>Equivalent Tons:</b>	14.7
				(See Attached We	ight Ticket)
	<b>~</b> / .	A		(For S	OILWORKS, INC.)
Inspected & Accepted by:	_ Mai	ual)	UL	chara (Fors	
Date Received:		11970	3		
			_	<del></del>	

	PETROLEUM	CONTAMI					
Soilworks, Inc.		Contaminant Class & Type					
12861 NC Highway 96 No	orth						
Zebulon, NC 27597				DOT Class I (Petroleu			
Phone: (919) 366-1500 Fax: (919	) 365-6180	Gasoline	0	Av Gas	Gasohol D		
			_	DOT Class II (Petroleu	<u>im)</u> Diesel		
NCDENR-DWM PERMIT # S.	R- <i>RRO-004</i>	Jet Fuel		Kerosene □ Naptha □	#2 Fuel Oil 🗆		
		Varsol		DOT Class III (Petrole			
		# 4 Fuel Oil		#5 Fuel Oil 🗆	#6 Fuel Oil □		
		Motor Oil		Hydraulic Oil 🛛			
				Other (Petroleum Bas	<u>ed)</u>		
		Waste Oil		Used Oil 🛛			
				Manifest #	5		
Contractor:	Geologix			Telephone:	(919) 859-4544		
	5316 Deep Val	iley Run					
	Raleigh, NC 2	7606					
	,						
Generator:	City of Raleigl	h					
	500 S. Blount	Street					
	Raleigh, NC 2	27601					
Transporter:	Brinley's Truc	king, Inc.					
	3611 Cessna I	Orive					
•	Garner, NC 2	27529		Gross Weight:	58000		
Truck #:	MC4			Tare Weight:	24500		
				Net Weight:	33500		
Date & Time Weighed:	07/29/03			<b>Equivalent Tons:</b>	16.7		
				(See Attached We	ight Ticket)		
Inspected & Accepted by:	$\mathcal{A}_{c}$	. A	,	(For S	OILWORKS, INC.)		
-	_Mu	REL	<u> </u>	rana			
Date Received:		29/03_					

Collegels Inc	PETROLLON	7		Contaminant Class &	Tune
Soilworks, Inc.			2	Sometiment Chass &	338X
12861 NC Highway 96 N	orth	1		DOT Class I (Petroleu	rena i
Zebulon, NC 27597	n\ 2 <i>CE (</i> 1 <b>0</b> 0	Gasoline		Av Gas	Gasohol 🛘
Phone: (919) 366-1500 Fax: (919)	7) 303-0130	Gasoinie	u	DOT Class II (Petrole	*
NCDENR-DWM PERMIT # S	P.RRO.004	Jet Fuel		Kerosene 🗆	Diesel Z
NCDENK-DWM 1 ERMIT # 5	10-2010-004	Varsol	0	Naptha 🛛	#2 Fuel Oil 🗓
				DOT Class III (Petrole	um)
		# 4 Fuel Oil		#5 Fuel Oil	#6 Fuel Oil 🛛
		Motor Oil		Hydraulic Oil 🛛	
				Other (Petroleum Bas	<u>ed)</u>
		Waste Oil		Used Oil 🛛	
				Manifest #	6
Contractor:	Geologix			Telephone:	(919) 859-4544
	5316 Deep Va	alley Run			
	Raleigh, NC	27606			
Generator:	City of Raleig	rh			•
Generator:		•			
	500 S. Blount				
	Raleigh, NC	27601		·	
Transporter:	Brinley's True	cking, Inc.			
Hanshorter.	3611 Cessna l	<del>-</del>			
				Gross Weight:	55860
	Garner, NC	21329		•	
Truck #:	MC4			Tare Weight:	24500
				Net Weight:	31360
Date & Time Weighed:	07/29/03			<b>Equivalent Tons:</b>	15.5
				(See Attached We	ight Ticket)
Inspected & Accepted by: Date Received:	A	îmaB 7/29/1	11 33	chanan (For S	SOILWORKS, INC.)

	TEIROLEUM		3434		
Sollworks, Inc	•		<u> </u>	Contaminant Class & ]	<u>vpe</u>
12861 NC Highway 96 l	North				
				DOT Class 1 (Petroleur	
Phone: (919) 366-1500 Fax: (9	19) 365-6180	Gasoline	O	Av Gas 🗆	Gasohol 🗆
				DOT Class II (Petroleu	<u>im)</u> Diesel
NCDENR-DWM PERMIT #	SR-RRO-004	Jet Fuel		Kerosene 🗆 Naptha 🗆	#2 Fuel Oil 🗆
enerator: ransporter: ruck #: ate & Time Weighed:		Varsol		DOT Class III (Petrolet	
	•	# 4 Fuel Oil	0	#5 Fuel Oil	#6 Fuel Oil 🛛
		Motor Oil	0	Hydraulic Oil □	
		1.10101 02	_	Other (Petroleum Base	eď)
		Waste Oil	0	Used Oil []	
				Manifest #	7
Contractor:	Geologix	,		Telephone:	(919) 859-4544
	5316 Deep Val	lley Run			
	Raleigh, NC 2	7606			
Generator:	City of Raleigl	n			
	500 S. Blount	Street			
	Raleigh, NC 2	27601			
Transporter:	Brinley's Truc	-			
	3611 Cessna I	Drive			
·	Garner, NC 2	27529		Gross Weight:	54640
Truck #:	MC4			Tare Weight:	24500
				Net Weight:	30140
Date & Time Weighed:	07/29/03			<b>Equivalent Tons:</b>	15.1
	•			(See Attached Wei	ight Ticket)
Inspected & Accepted by:	Laura	Bucha	V	(For Se	OILWORKS, INC.)

	PETROLEUM	[ CONTAMI	NA7	TED SOIL			
Soilworks, Inc.			Contaminant Class & Type				
12861 NC Highway 96 N	orth						
Zebulon, NC 27597				DOT Class I (Petroleu			
Phone: (919) 366-1500 Fax: (91	9) 365-6180	Gasoline		Av Gas 🛘	Gaschol []		
	n nno 664	7 . 3 <sup>m</sup> t	_	DOT Class II (Petroles	<u>um)</u> Diesel		
NCDENR-DWM PERMIT # S	K-KKO-004	Jet Fuel Varsol		Kerosene □ Naptha □	#2 Fuel Oil []		
		VIIIOI	u	DOT Class III (Petrole			
		# 4 Fuel Oil	D	#5 Fuel Oil 🛛	#6 Fuel Oil 🛘		
		Motor Oil	0	Hydraulic Oil 🛛			
				Other (Petroleum Bas	ed)		
		Waste Oil	0	Used Oil 🛛			
				Manifest #	8		
Contractor:	Geologix			Telephone:	(919) 859-4544		
	5316 Deep Val	ley Run					
	Raleigh, NC 2	7606					
Generator:	City of Raleigh			•			
	500 S. Blount S	Street					
	Raleigh, NC 2	7601					
Transporter:	Brinley's Truck	king, Inc.					
	3611 Cessna D	rive					
	Garner, NC 2	7529		Gross Weight:	55360		
Truck #:	WDI1			Tare Weight:	23220		
				Net Weight:	32140		
Date & Time Weighed:	07/29/03			<b>Equivalent Tons:</b>	16.1		
				(See Attached Wei	ight Ticket)		
		_		· •			
Inspected & Accepted by:	dan	102	ICI	hanan (For S	OILWORKS, INC.)		
Date Received:	7/29	103					

	PETKOLLU	<u>M</u> CONTAME	YA.	ED SOIL					
Soilworks, Inc		<u>Contaminant Class &amp; Type</u>							
12861 NC Highway 96 P	North		_						
Zebulon, NC 2759	7			DOT Class I (Petroleu	<u>m)</u>				
Phone: (919) 366-1500 Fax: (9	19) 365-6180	Gasoline		Av Gas 🗆	Gasohol	0			
			_	DOT Class II (Petroles		_/			
NCDENR-DWM PERMIT #	SR-RRO-004	Jet Fuel Varsol	0	Kerosene □ Naptha □	Diesel #2 Fuel Oil				
		Valsoi	u	DOT Class III (Petrole					
		# 4 Fuel Oil	0	#5 Fuel Oil 🛛	#6 Fuel Oil	0			
	·	Motor Oil		Hydraulic Oil 🛛					
•				Other (Petroleum Bas	<u>ed)</u>				
		Waste Oil		Used Oil 🛛					
				Manifest #	9				
Contractor:	Geologix			Telephone:	(919) 859-4	544			
	5316 Deep V	alley Run							
	Raleigh, NC	27606		•					
Generator:	City of Raleig	gh				i,			
	500 S. Blount Street								
	Raleigh, NC	27601							
Transporter:	Brinley's Tru	cking, Inc.							
	3611 Cessna	<u> </u>							
	Garner, NC	275 <b>29</b>		Gross Weight:	55680				
Truck #:	WDI1			Tare Weight:	23220				
				Net Weight:	32460				
Date & Time Weighed:	07/29/03			Equivalent Tons:	16.2				
				(See Attached Wei	ight Ticket)				
		Λ	A	Om St	OH WORKS	mo.			
Inspected & Accepted by:	_ Xu	40 DUC	h	anan (For s	OILWORKS,	inc.)			
Date Received:	7	129173	, (	<del>-</del> · · · · <del></del> ·-					

Soilworks, Inc.		Contaminant Class & Type							
12861 NC Highway 96 N	orth								
Zebulon, NC 27597	•	ì		DOT Class I (Petrolet	<u>um)</u>				
Phone: (919) 366-1500 Fax: (91	9) 365-6180	Gasoline		Av Gas	Gasohol 🛛				
				DOT Class II (Petrole					
NCDENR-DWM PERMIT # S	R-RRO-004	Jet Fuel		Kerosene 🗆	Diesel				
		Varsol		Naptha D	#2 Fuel Oil 🛚				
				DOT Class III (Petrole					
		# 4 Fuel Oil	U	#5 Fuel Oil []	#6 Fuel Oil 🛛				
		Motor Oil	D	Hydraulic Oil	•1				
		W / OI	<b></b>	Other (Petroleum Bas	<u>sea)</u>				
		Waste Oil		Used Oil 🛘					
				Manifest #	10				
Contractor:	Geologix			Telephone:	(919) 859-4544				
	5316 Deep Val	lley Run							
	Raleigh, NC 2	27606							
•									
Generator:	City of Raleigl	h							
	500 S. Blount	Street							
	Raleigh, NC 2	27601							
	4								
Transporter:	Brinley's Truc	king, Inc.							
	3611 Cessna D	Prive							
	Garner, NC 2	7529		<b>Gross Weight:</b>	60460				
Truck #:	WDI1			Tare Weight:	23220				
				Net Weight:	37240				
Date & Time Weighed:	07/29/03			<b>Equivalent Tons:</b>	18.6				
				(See Attached We	ight Ticket)				
	0				ATT 1710 m == 0				
Inspected & Accepted by:	- of au	raissu	<u>Ch</u>	Mana (For S	OILWORKS, INC.)				
Date Received:	・・・・・	19113							

Soilworks, Inc.		<u>Contaminant Class &amp; Type</u>								
12861 NC Highway 96 N	orth		DOT OL - I (Detector)							
Zebulon, NC 27597		_		DOT Class I (Petrole						
Phone: (919) 366-1500 Fax: (91	9) 365-6180	I Gasoline	f"l	Av Gas □	Gasobol / 🖺					
				DOT Class II (Petrole						
NODENE DWM PDRMIT # SK REO 604		Jot Puol Vannal	브	Kerosene. U	Droco! ✓ #2 Fuel Oil □					
		Varsol		Naptha 🗆						
		# 4 Fuel Oil	Ы	#5 Fuel Oil U	#6 Fuel Oil U					
		Motor Oil	ח	Hydraulic Oil []	#Older On C					
		Motor On	u	Other (Petroleum Ba	<u> 4</u> \					
		Waste Oil	U	Used Oil	<b>36.42</b>					
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	_	Manifest #	11					
Contractor:	Geologix			Telephone:	(919) 859-4544					
5316 Deep Val		lley Run								
	Raleigh, NC 2	7606								
Generator:	City of Raleigh	1								
	500 S. Blount S	Street								
	Raleigh, NC 2	27601								
Transporter:	Brinley's Truck	king Inc			÷					
, estisharet.	3611 Cessna D	<b></b>								
·	Garner, NC 2			Gross Weight:	53520					
Truck #:	WDI1			Tare Weight:	23220					
	***			Net Weight:	30300					
Date & Time Weighed:	07/29/03			Equivalent Tons:						
Date & Time Tragnout	01/22/03			-						
•				(See Attached We	ignt Ticket)					
Inspected & Accepted by:	Low	na Bu	ch	anana (For S	OILWORKS, INC.)					
Date Received:		1179102	<u> </u>							

#### NON-HAZARDOUS WASTE MANIFEST

		M CUNTAMI			<b></b>	
Soilworks, In			<u> </u>	Contaminant Class &	<u>Tvpe</u>	
12861 NC Highway 96						
Zebulon, NC 275		Gasoline	п	DOT Class I (Petroles	<u>im)</u> Gasobol	П
Phones (919) 366-1500 Fax: (	YIYI TAD=BIAH	# LIASONDP	11	DOT Class II (Petrole		
AZZTOSESTMICS STEKZAM KASTARAMSTOL (Bachows) (SS SSTEETE & GROSTES & S	A Clas estado diña é	let true!	1 1	Varneens 11	1 Years	: ://
: ಕರ್ನಟ್ಟಿಕ್ಕಾ (ಕರ್ನ ಕರ್ನ್ ೧೯೩ ಕ ಕೆಸಕ್ಕೇಗಿತ್ತಿ ಈ ನಿ	1 1984 844444 775 -	Varsol		Naptha 🗀	#2 Fuel Oil	a
				DOS SIES III IT THUIC	- 4-2-5-4 A F	
•		# 4 Fuel Oil	⊔	#5 Fuel Oil ⊔	#6 Fuel Oil	L
		Motor Oil	Π	Hudraulic Oil II	<b></b>	
		***		Olice is envioum Dua	) Eul)	
		Waste Oil	ij	Used Oil		
				Manifest #	12	
Contractor:	Geologix			Telephone:	(919) 859-4	544
	5316 Deep V	atley Run				
	Raleigh, NC	27606				
Generator:	City of Ralei	gh				
	500 S. Bloun	t Street				
	Raleigh, NC	27601				
Transporter:	Brinley's Tru	icking, Inc.				
	3611 Cessna	Drive				
	Garner, NC	27529		Gross Weight:	56320	
Truck #:	WDI1			Tare Weight:	23220	
				Net Weight:	33100	
Date & Time Weighed:	07/29/03			<b>Equivalent Tons:</b>	16.5	
				(See Attached We	ight Ticket)	
Inspected & Accepted by:	A			(For S	OILWORKS,	INC.
Date Received:	An	WA B	10.	haran		

	I DINOLISONI	CONTRACT	T 41.W			
Soilworks, Inc	<b>C.</b>		9	<u> Contaminant Class &amp; </u>	Type	
12861 NC Highway 96	North					
Zebulon, NC 2759	)7			DOT Class I (Petrole		
Phone: (919) 366-1500 Fax: (	19) 365-6180	Gasoline		Av Gas 🗆	Gasohol	
				<b>DOT Class II (Petrole</b>		/
NCDENR-DWM PERMIT #	SR-RRO-004	Jet Fuel		Kerosene 🛘	Diesel	<u> </u>
•		Varsol		Naptha 🛘	#2 Fuel Oil	
		# 4 Fuel Oil	_	DOT Class III (Petrole #5 Fuel Oil	#6 Fuel Oil	0
	•	# 4 ruel Oil Motor Oil		Hydraulic Oil	#0 Fuel Oil	IJ
•		1-10101 <b>O</b> 11		Other (Petroleum Bas	eed)	
		Waste Oil		Used Oil □	<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>	
	•			Manifest #	13	•
Contractor:	Geologix			Telephone:	(919) 859-45	44
	5316 Deep Vall	ley Run				
	Raleigh, NC 27	7606				
Generator:	City of Raleigh					
	500 S. Blount S	treet		•		
	Raleigh, NC 27	7601				
Transporter:	Brinley's Truck	ing, Inc.				
	3611 Cessna Di	<u>.</u>				
	Garner, NC 27	7529		Gross Weight:	54700	
Truck #:	WDI1			Tare Weight:	23220	
		•		Net Weight:	31480	
Date & Time Weighed:	07/29/03			<b>Equivalent Tons:</b>	15.5	
				(See Attached We	ight Ticket)	
		n 4				
Inspected & Accepted by:	d	Krunat	h	chanan (For S	OILWORKS,	INC.)
Date Received:		7/29/	52			
•		1 /-		<del></del>		

	PETROLEUM	CONTAMI	NA'	TED SOIL		
Soilworks, Inc.			(	Contaminant Class &	Type	
12861 NC Highway 96 N	lorth					
Zebulon, NC 27597				DOT Class I (Petroleu		
Phone: (919) 366-1500 Fax: (91	9) 365-6180	Gasoline		Av Gas	Gasohol	
11 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1	CD DDG 004	ter Peril	_	DOT Class II (Petrole Kerosene	<u>um)</u> Diesel	1
NCDENR-DWM PERMIT # 5	SK-KKU-UU4	Jet Fuel Varsol	0	Kerosene □ Naptha □	#2 Fuel Oil	
		Valsoi	L.J	DOT Class III (Petrole		_
		# 4 Fuel Oil		#5 Fuel Oil	#6 Fuel Oil	u
		Motor Oil		Hydraulic Oil 🛛		
				Other (Petroleum Bas	sed)	
		Waste Oil		Used Oil 🛛		
				Manifest #	14	
Contractor:	Geologix			Telephone:	(919) 859-45	44
,	5316 Deep Val	ley Run				
	Raleigh, NC 2	7606		•		
Generator:	City of Raleigh	ı				
	500 S. Blount S	Street				
	Raleigh, NC 2	7601				
Transporter:	Brinley's Truck	king Inc				
Hansporter.	. •	•				
	3611 Cessna D			Common Water to	54800	
	Garner, NC 2	/329		Gross Weight:		
Truck #:	WDI1			Tare Weight:	23220	
		*		Net Weight:	31580	
Date & Time Weighed:	07/30/03			<b>Equivalent Tons:</b>	15.8	
				(See Attached We	ight Ticket)	
	Λ					
Inspected & Accepted by:	kau	ya Bu	d	On On (For S	OILWORKS,	INC.)
Date Received:	1	30103				

Soilworks, Inc.			9	Contaminant Class &	<u>Type</u>
12861 NC Highway 96 No	orth				
Zebulon, NC 27597				DOT Class I (Petroleu	
Phone: (919) 366-1500 Fax: (919	) 365-6180	Gasoline		Av Gas 🛛	Gasohol 🗆
				DOT Class II (Petroles	
NCDENR-DWM PERMIT # S.	R-RRO-004	Jet Fuel		Kerosene 🗆	Diesel 0
		Varsol	0	Naptha D	#2 Fuel Oil C
				DOT Class III (Petrole	<u>um)</u>
		# 4 Fuel Oil	0	#5 Fuel Oil 🗆	#6 Fuel Oil 🛘
		Motor Oil		Hydraulic Oil	•
		***		Other (Petroleum Bas	<u>sea)</u>
		Waste Oil		Used Oil □	ب
				Manifest #	15
Contractor:	Geologix		•	Telephone:	(919) 859-4544
	5316 Deep Val	ley Run			
	Raleigh, NC 2	7606			
Generator:	City of Raleigh	ı			
	500 S. Blount S	Street		•	
	Raleigh, NC 2	7601			
Transporter:	Brinley's Trucl	king, Inc.			
	3611 Cessna D	rive			
	Garner, NC 2	7529		Gross Weight:	57260
Truck #:	WDI1			Tare Weight:	23220
				Net Weight:	34040
Date & Time Weighed:	07/30/03			<b>Equivalent Tons:</b>	17.0
				(See Attached We	ight Ticket)
		A			
Inspected & Accepted by:		Range	A	ich a ca a (For S	OILWORKS, INC.)
•	$ \mathcal{U}$	THUNK	بلج	<u>ILM MAIL</u>	
Date Received:	***	1/30/[	13		

	TEIROLEUM	i Contami 1			<b>~</b>
Soilworks, Inc.			9	Contaminant Class &	Type
12861 NC Highway 96 N					_
Zebulon, NC 27597				DOT Class I (Petroleu	
Phone: (919) 366-1500 Fax: (91	9) 365-6180	Gasoline		Av Gas	Gaschol 🗆
DIVIS DELL'AND IL	'n nno 007	tua touut	_	DOT Class II (Petroles Kerosene	um) Diesel 🗆
NCDENR-DWM PERMIT # 5	K-KKO-VV4	Jet Fuel Varsol		Keresene □ Naptha □	#2 Fuel Oil
		Valsor	L,	DOT Cluss III (Peirole	
		# 4 Fuel Oil		#5 Fuel Oil 🛘	#6 Fuel Oil
		Motor Oil		Hydraulic Oil 🛛	•
				Other (Petroleum Bas	<u>ēd)</u>
		Waste Oil		Used Oil 🛛	
				Manifest #	16
Contractor:	Geologix			Telephone:	(919) 859-4544
	5316 Deep Val	ley Run			
•	Raleigh, NC 2	7606			
Generator:	City of Raleigh	ı			
	500 S. Blount S	Street			
	Raleigh, NC 2	7601			
Transporter:	Brinley's Truck	king, Inc.			
	3611 Cessna D	rive			
	Garner, NC 2	7529		Gross Weight:	54480
Truck #:	WDI1			Tare Weight:	23220
				Net Weight:	31260
Date & Time Weighed:	07/30/03		٠	<b>Equivalent Tons:</b>	15.6
				(See Attached We	ight Ticket)
Inspected & Accepted by:		Jauras	<u>3</u>	ichanar (For s	OILWORKS, INC.)
Date Received:		コマクラ	$\supset$		

Soilworks, Inc.	Soilworks, Inc. <u>Contaminant Class &amp; Type</u>		Contaminant Class & Type	
12861 NC Highway 96 N	orth			
Zebulon, NC 27597				<u>DOT Class I (Petroleum)</u>
Phone: (919) 366-1500 Fax: (91	9) 365-6180	Gasoline		Av Gas 🛛 Gasohol 🗓
				DOT Class II (Petroleum)
NCDENR-DWM PERMIT # S	R-RRO-004	Jet Fuel		Keresene 🗆 Diesel 📝
		Varsol		Naptha 🛛 #2 Fuel Oil 🗀
				DOT Cluss III (Petroleum)
		# 4 Fuel Oil		
		Motor Oil	0	Hydraulic Oil 🛘
	•	WL-Os	,	Other (Petroleum Based)
		Waste Oil		Used Oil 🗆
•				Manifest #
Contractor:	Geologix			<b>Telephone:</b> (919) 859-4544
	5316 Deep Vall	ley Run		
	Raleigh, NC 27	7606		
Generator:	City of Raleigh			
	500 S. Blount S	treet		
	Raleigh, NC 2	7601		
Transporter:	Brinley's Truck	ing, Inc.		
	3611 Cessna Di	rive		
	Garner, NC 27	7529		Gross Weight: 53760
Truck #:	KT1			Tare Weight: 23500
				Net Weight: 30260
Date & Time Weighed:	07/29/03			Equivalent Tons: 15.1
				(See Attached Weight Ticket)
		Λ		
Inspected & Accepted by:	ſ	* Anna	A	(For SOILWORKS, INC.)
Date Received:		-frankis	) //	20103
•			-	cyo-

Earthtec Environmental, Inc.
Post Office Box 130
Sanford, North Carolina 27331

Fax #: 919-774-6415

NON-HAZARDOU	S WASTE MANIFEST	4.000
Project Number:	Load Number:	1 1
Consultant:.	Contact:	
Geologix		
C(2010 3.7	Phone:	
Generator:.	Contact:	
City of Ralengh.		
Cuty of Total	Phone:	talan jag
Transporter:	Contact:	TO A
•		
	Phone:	e gertal Web es
Destination: Earthtec Environmental, Inc.	Contact: Scott Keller	kin:
3145 Rosser Road, BearCreek, NC 27207	Phone: 919-774-4517 or 919/770-4258	Proj.
Waste Description:	Waste Origination:	
		3-8. 1941
Truck #: M G _ /	Gross Weight: 40 0	
	Tare Weight: 18500	
	Net Weight: 459 00	
	· · · · · · · · · · · · · · · · · · ·	

Net Weight: 45900

GENERATOR'S CERTIFICATION: I certify that the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of HAZARDOUS WASTE.

Generator Agent Signature

Title

Date

Acknowledgment of Receipt of Material: 
Driver's Signature

Date

Noted Discrepancies:
Inspected & Accepted (except as noted above) By: Earthtec Environmental, Inc.

Accepted By: 
Date: 7-29-83

Earthtec Environmental, Inc. Post Office Box 130

Fax #: 919-774-6415

Sanford, North Carolina 27331

Project Number:	Load Number:
Consultant Geologijo	Contact:
-1-5-4/1/0	Phone:
Generator.	Contact:
Coty of Pal.	programment to program and program and program and programment and another than the control of t
7	Phone:
Transporter:	Contact:
	Phone:
Destination: Earthtee Environmental, Inc.	Contact: Scott Keller
3145 Rosser Road, BearCreek, NC 27207	Phone: 919-774-4517 or 919/770-4258
Waste Description:	Waste Origination:
Truck #: 12 12-12	Gross Weight: 63320
	Tare Weight: St. 18400
3-phylosofte-0-21-Ex Indigenes (1997)	Net Weight. 44920
GENERATOR'S CERTIFICATION: I certify that subject to federal regulations for reporting proper	t the materials described above on this manifest are not disposal of HAZARDOUS WASTE.
Generator / Agent Signature	Title Date
Acknowledgment of Receipt of Materials	ver's Signature Date

Phone #: 614-444-7645

#### Earthtec Environmental of Ohio, Inc. 1900 Alum Creek Drive Columbus, Ohio 43207

Fax #: 614-444-1797

NON-HAZARDOUS	WASTE MANIFEST
Project Number:	Load Number:
Consultant:	Contact:
Geolosix	
Cledio	Phone:
Generator:	Contact:
City of Ral.	
Clark or	Phone:
Transporter:	Contact:
	Phone:
Destination: Earthtec Environmental, Inc.	Contact: Scott Keller / Gina Bycura
3145 Rosser Rd. Bear Creek, N.C. 27207	Phone: 919-774-4517
Waste Description: Petroleum Cont. Soil	Waste Origination:
Truck #: M 6 - 02	Gross Weight: 77260
	Tare Weight: 23400
	Net Weight: 68860 53860

Net Weight: 6860 53860

GENERATOR'S CERTIFICATION: I certify that the materials described above on this manifest are not 20 subject to federal regulations for reporting proper disposal of HAZARDOUS WASTE.

Generator Agent Signature

Title

Date

Acknowledgment of Receipt of Material: Big Heller Date

Noted Discrepancies:

Inspected & Accepted (except as noted above) By: Earthtec Environmental of, Inc.

Accepted By:

Date: 7-27-03

# Farthtec Environmental, Inc. Post Office Box 130

Post Office Box 130
Sanford, North Carolina 27331

Project Number:	Load Number:
Consultant:.  Creologia	Contact:
	Phone:
Generator:. City of Hol.*	Contact:
CITY C	Phone:
Transporter:	Contact:
	Phone:
Destination: Earthtec Environmental, Inc.	Contact: Scott Keller
3145 Rosser Road, BearCreek, NC 27207	Phone: 919-774-4517 or 919/770-4258
Waste Description:	Waste Origination:
Truck #: M H - 2	Gross Weight: 68866
and the second s	Tare Weight: 33400
	Net Weight: 45460
subject to federal regulations for reporting proper of	the materials described above on this manifest are not disposal of HAZARDOUS WASTE.  Title  Date
Generator / Agent Signature	$A \cdot A \cdot$

Earthtec Environmental, Inc. Post Office Box 130 Sanford, North Carolina 27331

Project Number:	Load Number:
Consultant:	Contact:
Geologix	
Geo.	Phone:
Generator:	Contact:
Generator:.  City of Rol.	
	Phone:
Transporter:	Contact:
and the second of the second o	Phone:
Destination: Earthtec Environmental, Inc.	Contact: Scott Keller
3145 Rosser Road, BearCreek, NC 27207	Phone: 919-774-4517 or 919/770-4258
Waste Description:	Waste Origination:
\int i	
Truck #: 4) M R-01	Gross Weight: 64 –60
	Tare Weight: 21400
	Net Weight: 43 160
GENERATOR'S CERTIFICATION: I certify that	the materials described above on this manifest are not 2
ubject to federal regulations for reporting proper	disposal of HAZARDOUS WASTE.
Jun Back	7/29/63
Generator / Agent Signature	Title Date
Acknowledgment of Receipt of Material:	ver's Signature Date
Noted Discrepancies:	
nspected & Accepted (except as noted above	-) Rv. Farthtec Environmental Inc

## Earthtec Environmental, Inc. Post Office Box 130

Sanford, North Carolina 27331

Consultant:  Ced of:  Phone:  Contact:  Contact:  Phone:  Contact:  Phone:  Contact:  Phone:  Contact:  Phone:  Contact:  Phone:  Ontact:  Phone:  Ontact:  Phone:  Ontact:  Phone:  145 Rosser Road, BearCreek, NC 27207  Waste Description:  Waste Origination:  Truck #:  Ontact:  Contact:  Phone:  919-774-4517 or 919/770-4258  Waste Origination:  Truck #:  Ontact:  Ontact:  Phone:  Ontact:  Ontact:  Ontact:  Phone:  Ontact:	NUN-HAZAKIOUS	WASIL MANIFEST
Phone:  Contact:  Phone:  Contact:  Phone:  Contact:  Phone:  Contact:  Phone:  Contact:  Phone:  Contact:  Phone:  Ontact:  Phone:  Ontact:  Phone:  Ontact:  Phone:  145 Rosser Road, BearCreek, NC 27207  Phone:  919-774-4517 or 919/770-4258  Waste Description:  Waste Origination:  Truck #:  Ontact:  Phone:  Ontact:  Phone:  Ontact:  Ontact:  Phone:  Ontact:  O	Project Number	Load Number:
Generator:  Contact:  Phone:  Contact:  Phone:  Contact:  Phone:  Destination: Earthtec Environmental, Inc.  Contact:  Phone:  145 Rosser Road, BearCreek, NC 27207  Phone: 919-774-4517 or 919/770-4258  Waste Description:  Waste Origination:  Truck #: Contact:  Gross Weight: 919-774-4517 or 919/770-4258  Waste Origination:  Truck #: Contact:  Truck #: Contact:  Phone:  Gross Weight: 919-774-4517 or 919/770-4258  Waste Origination:  Truck #: Contact:  Phone:  Gross Weight: 919-774-4517 or 919/770-4258  Waste Origination:  Truck #: Contact:  Phone:  Gross Weight: 919-774-4517 or 919/770-4258  Waste Origination:  Truck #: Contact:  Phone:  Gross Weight: 919-774-4517 or 919/770-4258  Waste Origination:  Truck #: Contact:  Truck #: Contact:  Phone:  Gross Weight: 919-774-4517 or 919/770-4258  Waste Origination:  Truck #: Contact:  Truck #: Contact:  Phone:  Gross Weight: 919-774-4517 or 919/770-4258  Waste Origination:  Truck #: Contact:  Truck #: Contact:  Phone:  Gross Weight: 919-774-4517 or 919/770-4258  Net Weight: 919-774-4517 or 919/770-4258  Truck #: Contact:  Truck #: Contact:  Phone:  Gross Weight: 919-774-4517 or 919/770-4258  Waste Origination:  Truck #: Contact:  Truck #: Contact:  Phone:  Gross Weight: 919-774-4517 or 919/770-4258  Net Weight: 919-774-4517 or 919/770-4258  Net Weight: 919-774-4517 or 919/770-4258  Truck #: Contact:  Truck #: Contact:  Phone:  Truck #: Contact:  Phone:  Truck #: Contact:  Phone:  Gross Weight: 919-774-4517 or 919/770-4258  Truck #: Contact:  Truck #: Contact:  Phone:  Truck #: Contact:  Truck #: Contact:  Truck #: Contact:  Truck #: Contact:  Truc	Consultant:	Contact:
Generator:  Contact:  Phone:  Contact:  Phone:  Contact:  Phone:  Destination: Earthtec Environmental, Inc.  Contact:  Phone:  145 Rosser Road, BearCreek, NC 27207  Phone: 919-774-4517 or 919/770-4258  Waste Description:  Waste Origination:  Truck #: Contact:  Gross Weight: 919-774-4517 or 919/770-4258  Waste Origination:  Truck #: Contact:  Truck #: Contact:  Phone:  Gross Weight: 919-774-4517 or 919/770-4258  Waste Origination:  Truck #: Contact:  Phone:  Gross Weight: 919-774-4517 or 919/770-4258  Waste Origination:  Truck #: Contact:  Phone:  Gross Weight: 919-774-4517 or 919/770-4258  Waste Origination:  Truck #: Contact:  Phone:  Gross Weight: 919-774-4517 or 919/770-4258  Waste Origination:  Truck #: Contact:  Truck #: Contact:  Phone:  Gross Weight: 919-774-4517 or 919/770-4258  Waste Origination:  Truck #: Contact:  Truck #: Contact:  Phone:  Gross Weight: 919-774-4517 or 919/770-4258  Waste Origination:  Truck #: Contact:  Truck #: Contact:  Phone:  Gross Weight: 919-774-4517 or 919/770-4258  Net Weight: 919-774-4517 or 919/770-4258  Truck #: Contact:  Truck #: Contact:  Phone:  Gross Weight: 919-774-4517 or 919/770-4258  Waste Origination:  Truck #: Contact:  Truck #: Contact:  Phone:  Gross Weight: 919-774-4517 or 919/770-4258  Net Weight: 919-774-4517 or 919/770-4258  Net Weight: 919-774-4517 or 919/770-4258  Truck #: Contact:  Truck #: Contact:  Phone:  Truck #: Contact:  Phone:  Truck #: Contact:  Phone:  Gross Weight: 919-774-4517 or 919/770-4258  Truck #: Contact:  Truck #: Contact:  Phone:  Truck #: Contact:  Truck #: Contact:  Truck #: Contact:  Truck #: Contact:  Truc	C 106:X	
Phone:  Contact:  Phone:  Destination: Earthtec Environmental, Inc.  145 Rosser Road, BearCreek, NC 27207  Phone: 919-774-4517 or 919/770-4258  Waste Description:  Waste Origination:  Truck #:	Geor .	Phone:
Transporter:  Contact:  Phone:  Destination: Earthtec Environmental, Inc.  3145 Rosser Road, BearCreek, NC 27207  Phone: 919-774-4517 or 919/770-4258  Waste Description:  Waste Origination:  Truck #: ()	Generator:	Contact:
Transporter:  Contact:  Phone:  Destination: Earthtec Environmental, Inc.  3145 Rosser Road, BearCreek, NC 27207  Phone: 919-774-4517 or 919/770-4258  Waste Description:  Waste Origination:  Truck #: ()	and of Cal.	
Transporter:  Contact:  Phone:  Destination: Earthtec Environmental, Inc.  3145 Rosser Road, BearCreek, NC 27207  Phone: 919-774-4517 or 919/770-4258  Waste Description:  Waste Origination:  Truck #: ()	City o	Phone:
Destination: Barthtec Environmental, Inc.  3145 Rosser Road, BearCreek, NC 27207  Phone: 919-774-4517 or 919/770-4258  Waste Description:  Waste Origination:  Truck #:	the control of the co	Contact:
Destination: Barthtec Environmental, Inc.  3145 Rosser Road, BearCreek, NC 27207  Phone: 919-774-4517 or 919/770-4258  Waste Description:  Waste Origination:  Truck #:	4	
Waste Description:  Truck #:	we have the second of $\mathcal{N}_{ij}$ . The second of $\mathcal{N}_{ij}$	Phone:
Waste Description:  Waste Origination:  Truck #:	Destination: Earthtec Environmental, Inc.	Contact Scott Keller
Truck #:	3145 Rosser Road, BearCreek, NC 27207	Phone: 919-774-4517 or 919/770-4258
Tare Weight: 3.400  Net Weight: 4.360  GENERATOR'S CERTIFICATION: I certify that the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of HAZARDOUS WASTE.  Generator   Agent Signature   Title   Date  Acknowledgment of Receipt of Material:   Driver's Signature   Date  Noted Discrepancies:	Waste Description:	Waste Origination:
Tare Weight: 3.400  Net Weight: 4.360  GENERATOR'S CERTIFICATION: I certify that the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of HAZARDOUS WASTE.  Generator   Agent Signature   Title   Date  Acknowledgment of Receipt of Material:   Driver's Signature   Date  Noted Discrepancies:		
Net Weight: 46360  GENERATOR'S CERTIFICATION: I certify that the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of HAZARDOUS WASTE.  Generator   Agent Signature   Title   Date  Acknowledgment of Receipt of Material:   Driver's Signature   Date  Noted Discrepancies:	Truck #: - / 1 M R () /	Gross Weight: 60760
Net Weight: 46360  GENERATOR'S CERTIFICATION: I certify that the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of HAZARDOUS WASTE.  Generator   Agent Signature   Title   Date  Acknowledgment of Receipt of Material:   Driver's Signature   Date  Noted Discrepancies:	and the second s	Tare Weight: 21400
GENERATOR'S CERTIFICATION: I certify that the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of HAZARDOUS WASTE.  Generator   Agent Signature		Net Weight: 46360
Acknowledgment of Receipt of Material: 14 7 7 29-0)  Driver's Signature Date	subject to federal regulations for reporting proper dis	ne materials described above on this manifest are not posal of HAZARDOUS WASTE.
Driver's Signature Date	Acknowledgment of Receipt of Material:	d flano 7-24-03
Noted Discrepancies:  Noted Discrepancies:  Profile Environmental Inc.	Driv <del>é</del>	f's Signature Date
	Noted Discrepancies:	By: Farthtec Environmental Inc.

Earthtee Environmental, Inc. Post Office Box 130 Sanford, North Carolina 27331

NON-HAZARDOUS	WASTE MANIFEST
Project Number	Load Number:
Consultant:	Contact:
Geologia	
Georgy.	Phone:
Generator:	Contact:
al dela	
Generator:. City & RJ.	Phone:
Transporter:	Contact:
<i>3</i> **	
errig Discovered	Phone:
Destination: Earthtee Environmental, Inc.	Contact: Scott Keller
3145 Rosser Road, BearCreek, NC 27207	Phone: 919-774-4517 or 919/770-4258
Waste Description:	Waste Origination:
Truck #: 15-7	Gross Weight: 6680 0
ar sametan a stamman (Color Color of the American Sametan (Color of the American Sametan (Col	Tare Weight: 187300
	Net Weight: URSOO
GENERATOR'S CERTIFICATION: I certify that the subject to federal regulations for reporting proper dis	e materials described above on this manifest are not
Generator Agent Signature Ti	ile / Date
Acknowledgment of Receipt of Material:	Laurie 1 Jack 7-29-03  S Signature Date
Noted Discrepancies:	
Inspected & Accepted (except as noted above)	by: Danniec Environmental, Inc.

Earthtee Environmental, Inc. Post Office Box 130

Sanford, North Carolina 27331

Fax #: 919-774-6415

ere agree of contact

roject Number:	· 1000年1月1日 - 1	Load Number:	
Consultant:.  Geologix		Contact:	
960017	· · · · · · · · · · · · · · · · · · ·	Phone:	
Jenerator:		Contact:	b
an of M.). Comment with a comment of the second comment of the sec		Phone:	1
Fransporter:		Contact:	The second secon
Make the above the parket.		Phone:	in de la compania de La compania de la co
Destination: Earthtee Environn 3145 Rosser Road, BearCreek,	ė.	Contact: Scott Keller Phone: 919-774-4517	or 919/770-4258
Waste Description:	1.177 - 1.177 - 1.177 - 1.178 - 1.178 - 1.178 - 1.178 - 1.178 - 1.178 - 1.178 - 1.178 - 1.178 - 1.178 - 1.178	Waste Origination:	
Truck #: 6 - 7		Gross Weight: 6760	26 ·
		Tare Weight: 1830	<u>.</u>
		Net Weight: 67720	
GENERATOR'S CERTIFICATION  Inbject to federal regulations for repositions for receipt of rec	for ting proper dis	gent /	7/29/03 Date
Noted Discrepancies:		r's Signature V	Date

Phone #: 614-444-7645

**第**套中等印刷点。

#### Earthtee Environmental of Ohio, Inc. Fax #: 614-444-1797 1900 Alum Creek Drive

Note that the second

Columbus, Ohio 43207

Project Number:	Load Number:
Consultant:	Contact:
The state of the s	Phone:
Generator:	Contact:
City of Raleigh	Phone:
Transporter:	Contact:
	Phone.
Destination: Earthtee Environmental, Inc.	Contact: Scott Keller / Gina Bycura
3145 Rosser Rd. Bear Creek, N.C. 27207	Phone: 919-774-4517
Waste Description: Petroleum Cont. Soil	Waste Origination:
Truck #: Rw 465	Gross Weight: 77940
	Tare Weight: 24,500
	Net Weight: 53440
GENERATOR'S CERTIFICATION: I certify that ubject to federal regulations for reporting proper c	the materials described above on this manifest are not isposal of HAZARDOUS WASTE.
Generator / Agent Signature	Title Date
Acknowledgment of Receipt of Material:	er's Signature Date
Linv	

Phone #: 614-444-7645

#### Earthtec Environmental of Ohio, Inc.

1900 Alum Creek Drive Columbus, Ohio 43207

Fax #: 614-444-1797

NON-HAZARDOUS WASTE MANIFEST		
Project Number	Load Number:	
Consultant: Geologik, Inc.	Contact:	
	Phone:	
Generator: City of Ruleigh	Contact:	
	Phone:	
Transporter:	Contact:	
	Phone:	
Destination: Earthtee Environmental, Inc.	Contact: Scott Keller / Gina Bycura	
3145 Rosser Rd. Bear Creek, N.C. 27207	Phone: 919-774-4517	
Waste Description: Petroleum Cont. Soil	Waste Origination:	
Truck#: R - 100	Gross Weight: 156930	
	Tare Weight: 500	
	Net Weight: 35 430	
GENERATOR'S CERTIFICATION: I certify that the	materials described above on this manifest are not	

subject to federal regulations for reporting proper disposal of HAZARDOUS WASTE.

Acknowledgment of Receipt of Material:  Driver's Signature  Noted Discrepancies:  Inspected & Accepted (except as noted above) By: Earthtec Environmental of, In	Date
Noted Discrepancies:  Inspected & Accepted (except as noted above) By: Earthtec Environmental of, In	Date
	nc.
Accepted By: Clark Date: 7-3003	} 

Phone #:614-444-7645

#### Earthtee Environmental of Ohio, Inc. 1900 Alum Creek Drive

Columbus, Ohio 43207

Fax #: 614-444-1797

NON-HAZARDOUS WASTE MANIFEST	
Project Number:	Load Number:
Consultant:	Contact:
Geologix Tuc.	
Cheology	Phone:
Generator:	Contact:
City of Raleigh	
	Phone:
Transporter:	Contact:
	Phone: Contact: Scott Keller / Gina Bycura
Destination: Earthtee Environmental, Inc	Contact: Scott Keller / Gina Bycura
3145 Rosser Rd. Bear Creek, N.C. 27207	Phone: 919-774-4517
Waste Description: Petroleum Cont. Soil	Waste Origination:
Truck #: WG3	Gross Weight: (08287)
	Tare Weight: 22, 500
CONTRACTOR AND	Net Weight: 45 780 22.
subject to federal regulations for reporting proper d	
Generator / Agent Signature	Title Date
Acknowledgment of Receipt of Material:	er's Signature \ \ \ \ \ Date
Noted Discrepancies:	19KI DAVI 7-30-03

Inspected & Accepted (except as noted above) By: Earthtec Environmental of Inc.

Phone #: 614-444-7645

Earthtee Environmental of Ohio, Inc.

Fax #: 614-444-1797

1900 Alum Creek Drive Columbus, Ohio 43207

NON-HAZARDOUS WASTE MANIFEST Load Number Project Number: Consultant: Contact: Geologia Juc. Phone: Contact: Generator: City of Raleigh Phone: Transporter. Contact. Phone: Contact Scott Keller / Gina Bycura Destination: Earthtee Environmental, Inc. Phone: 919-774-4517 3145 Rosser Rd. Bear Creek, N.C. 27207 Waste Origination Waste Description: Petroleum Cont. Soil 7.300 Gross Weight: Truck #

GENERATOR'S CERTIFICATION: I certify that the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of HAZARDOUS WASTE.

Tare Weight:

Net Weight:

Generator / Agent Signature	Title	Date
Acknowledgment of Receipt of Material:	Ani alston	7-30-03
Noted Discrepancies:	river's Signature	Date
Inspected & Accepted (except as nated about	ove) By: Earthtec Environmental o	f, Inc.
Accepted By: Myb	Date: 7-30-	

Phone # : 614-444-7645

#### Earthtec Environmental of Ohio, Inc. 1900 Alum Creek Drive Columbus, Ohio 43207

Fax # -614-444-1797

Project Number:	Load Number:
Consultant:	Contact:
Creologia stuc.	
	Phone:
Generator:	Contact:
City of Raleigh	
	Phone.
Transporter:	Contact:
·	
	Phone:
Destination: Earthtec Environmental, Inc.	Contact: Scott Keller / Gina Bycura
3145 Rosser Rd. Bear Creek, N.C. 27207	Phone: 919-774-4517
Waste Description: Petroleum Cont. Soil	Waste Origination:
Truck $\#: Lz/2$	Gross Weight: 63060
	Tare Weight: 201/00
	Net Weight: 42 960 21.4

GENERATOR'S CERTIFICATION: I certify that the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of HAZARDOUS WASTE.

Generator / Agent Signature	Title	D	ate
Acknowledgment of Receipt of Ma	merial Secret 2	MAD	730-03
1 Louis VI Louis Land Land Land Land Land Land Land Land	Driver's Signature	D	ate -
Noted Discrepancies:			प्रकार प्रकार के की की की की की किया है जा पान की
Inspected & Accepted (except as r	oted above) By: Earthtec E	nvironmental of, Inc.	
Accepted By: Contest	Date:	7-30-01	

Property of

Fax #: 614-444-1797

Phone #: 614-444-7645

#### Earthtee Environmental of Ohio, Inc. 1900 Alum Creek Drive

1900 Alum Creek Drive Columbus, Ohio 43207

NON-HAZARDOUS WASTE MANIFEST Load Number: Project Number: Contact: Consultant: Geologik Inc. Phone: Contact: City of Raleigh Generator: Phone: Contact: Transporter: Phone: Contact: Scott Keller / Gina Bycura Destination: Earthtec Environmental, Inc. Phone: 919-774-4517 3145 Rosser Rd. Bear Greek, N.C. 27207 Waste Origination: Waste Description: Petroleum Cont. Soil Gross Weight: Truck #: Tare Weight Net Weight. GENERATOR'S CERTIFICATION: I certify that the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of HAZARDOUS WASTE.

	The second secon	
Generator / Agent Signature	Title,	Date
Acknowledgment of Receipt of Mate	erial Mon / Atm	pour de la company de la compa
	Driver's Signature	Date
Noted Discrepancies:	and the second s	
Inspected & Accepted (except as not	ted above) By: Earthtec Envir	onmental of, Inc.
		4 **
Accepted By	Date:	

Phone #: 614-444-7645

Noted Discrepancies:\_

#### Earthtee Environmental of Ohio, Inc. 1900 Alum Creek Drive Columbus Ohio 43207

Fax #: 614-444-1797

Commons, Contraction		
NON-HAZARDOUS WASTE MANIFEST		
Project Number	Load Number:	
Consultant:	Contact.	
Geologia, Inc.		
	Phone:	
Generator:	Comact:	
City of Raleigh		
	Phone:	
Transporter:	Contact:	
en e	Phone:	
Destination: Earthtec Environmental, Inc	Contact: Scott Keller / Gina Bycura	
3145 Rosser Rd. Bear Creek, N.C. 27207	Phone: 919-774-4517	
Waste Description: Petroleum Cont. Soil	Waste Origination:	
	2	
Truck #: W/7 7	Gross Weight: 7/200	
	Tare Weight: 21500	
	Net Weight: 49700	
CENTER ATOR'S CERTIFICATION: I certify that t	he materials described above on this manifest are not	
subject to federal regulations for reporting proper d	isposal of HAZARDOUS WASTE.	
	<u> </u>	
Generator / Agent Signature T	itle Date	
Acknowledgment of Receipt of Material: 1	in Denier	
Drive	er's Signature Date	

Inspected & Accepted (except as noted above) By: Earthtec Environmental of, Inc.

Date: 7-30-03

#### Earthtec Environmental, Inc. Post Office Box 130 Sanford, North Carolina 27331

NON-HAZARDOUS WASTE MANIFEST		
Project Number	Load Number:	
Consultant:	Contact:	
	Phone:	
Generator:. City of Raleigh	Contact:	
	Phone:	
Transporter:	Contact:	
Hankins	•	
6.	Phone:	
Destination: Earthtee Environmental, Inc.	Contact: Scott Keller	
3145 Rosser Road, BearCreek, NC 27207	Phone: 919-774-4517 or 919/770-4258	
Waste Description:	Waste Origination:	
Truck #: W/+/2	Gross Weight: 78040	
	Tare Weight: 23680	
	Net Weight: 4444	
GENERATOR'S CERTIFICATION: I certify that the subject to federal regulations for reporting proper disposed for the subject to federal regulations for reporting proper disposed for the subject to federal regulations for reporting proper disposed for the subject to federal regulations for reporting proper disposed for reporting proper d	osal of HAZARDOUS WASTE.	
Acknowledgment of Receipt of Material:  Driver's Signature  Date		
Noted Discrepancies: Inspected & Accepted (except as noted above) By: Earthtee Environmental, Inc.		

5B-3

Phone #: 919-774-4517

Earthtec Environmental, Inc.
Post Office Box 130

Fax #: 919-774-6415

Sanford, North Carolina 27331

NON-HAZARDOUS WASTE MANIFÉST Load Number: Project Number: Consultant.. Contact: Goologix Phone: Contact: Generator:. Phone: Contact: Transporter: Phone: Scott Keller Contact: Destination: Earthtee Environmental, Inc. 919-774-4517 or 919/770-4258 3145 Rosser Road, BearCreek, NC 27207 Phone. Waste Origination: Waste Description: Gross Weight: JB-3 Truck#: Tare Weight: Net Weight: GENERAZOR'S CERTIFICATION: I certify that the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of HAZARDOUS WASTE. Title Generator / Agent Signature Acknowledgment of Receipt of Material: Driver's Signature Date Noted Discrepancies: Inspected & Accepted (except as noted above) By: Earthtee Environmental, Inc. Date: Accepted By:

Earthtec Environmental, Inc. Post Office Box 130

Fax #: 919-774-6415

Sanford, North Carolina 27331

NON-HAZARDOUS WASTE MANIFEST		
Project Number:	Load Number:	
Consultant: Geologix, Inc.	Contact: Roblivermon	
	Phone: 919-859-4544	
Generator City of RAltich	Contact: Grey Pittman	
	Phone: 919-890-3087	
Transporter:	Contact:	
	Phone:	
Destination: Earthtec Environmental, Inc.	Contact: Scott Keller	
3145 Rosser Road, BearCreek, NC 27207	Phone: 919-774-4517 or 919/770-4258	
Waste Description: Gasoline (on tanging ted Soil	Waste Origination: 500 S. Blowt St. RALENDH, NC	
Truck #: 30-3	Gross Weight: 65860	
	Tare Weight: 24500	
	Net Weight: 413 60	
GENERATOR'S CERTIFICATION: I certify that the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of HAZARDOUS WASTE.		
Melent 16 Levernon & President- Geologix 7/30/03		
Generator / Agent Signature / Title Date		
Acknowledgment of Receipt of Material:		
Driver's Signature Date  Noted Discrepancies:		
Inspected & Accepted (except as noted above) By: Earthtec Environmental, Inc.		
Accounted By: My - Man Date:		

Earthtee Environmental, Inc.
Post Office Box 130
Sanford, North Carolina 27331

NON-HAZARDOUS Y	WASTE MANIFEST	
Project Number:	Load Number	
Consultant:	Contact: Roblivermon	
Gologix, Inc.	Phone: 919-859-4544	
Generator:.	Contact:	
City of RAleigh	Greg Pittman	
City of Knillingh	Phone: 9/9-800-3087	
Transporter:	Contact:	
	Phone:	
Destination: Earthtec Environmental, Inc.	Contact: Scott Keller	
3145 Rosser Road, BearCreek, NC 27207	Phone: 919-774-4517 or 919/770-4258	
Waste Description:  Gas contaminated soil	Waste Origination: 500 5. Blown 57 RAleid, NC	
Truck #: / ) H / 3	Gross Weight: 472140	
	Tare Weight: 23/00	
	Net Weight: 49848	
GENERATOR'S CERTIFICATION: I certify that the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of HAZARDOUS WASTE.    West		
Generality rights of the second of the secon		
Acknowledgment of Receipt of Material:  Driver's Signature  Date		
Noted Discrepancies:  Inspected & Accepted (except as noted above) By: Earthtec Environmental, Inc.		
Accepted By: Com Date: 7 - 29 03		

#### Earthtee Environmental, Inc. Post Office Box 130 Sanford, North Carolina 27331

Fax #: 919-774-6415

NON-HAZARDOUS WASTE MANIFEST		
Project Number:	Load Number:	
Consultant:	Contact: Rob livermon	
Geologix, INC.	Phone: 919-859-4544	
Generator:. (ity of RAleigh	Contact: Greg Pittman	
City of Tenresgin	Phone: 919-890-3087	
Transporter:	Contact:	
est	Phone:	
Destination: Earthtec Environmental, Inc.	Contact: Scott Keller	
3145 Rosser Road, BearCreek, NC 27207	Phone: 919-774-4517 or 919/770-4258	
Waste Description: Vetroleum, cont. Soil	Waste Origination: 500 S, Blown St.	
Truck #: /, JH-12	Gross Weight: 77640	
	Tare Weight: 23600	
	Net Weight: 54040	
GENERATOR'S CERTIFICATION: I certify that the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of HAZARDOUS WASTE.    Clust   F.		
Acknowledgment of Receipt of Material:  Driver's Signature  Date		
Noted Discrepancies:  Inspected & Accepted (except as noted above) By: Earthtee Environmental, Inc.		

27.02

Earthtec Environmental, Inc.
Post Office Box 130
Sanford, North Carolina 27331

Fax #: 919-774-6415

Project Number	Load Number:
Consultant:.  Geologix	Contact: Rob Liverman
G Edicy X	Phone: 919-859-4544
Generator:. City of Rabeigh	Contact: Greg Pittman
	Phone: 9/9-890-3087
Transporter:	Contact:
	Phone:
Destination: Earthtee Environmental, Inc.	Contact: Scott Keller
3145 Rosser Road, BearCreek, NC 27207	Phone: 919-774-4517 or 919/770-4258
Waste Description: Gas contaminated Soil	Waste Origination: 500 5. Blowt? RAleigh, NC
Truck #: 114-13	Gross Weight: 53 480
and and a second second for the second production of the second second second second second second second second	Tare Weight: 23/00
Babble 200 Big Char 25 Character and Africa and Character and the control of the Character and Chara	Net Weight: \$0380

GENERATOR'S CERTIFICATION: I certify that the materials described above on this manufactors to federal regulations for reporting proper disposal of HAZARDOUS WASTE.	nanifest are not
afect A. Nueman Jo, President-Geologix	7/30/03
Generator / Agent Signature / Title	Date '
Acknowledgment of Receipt of Material: Amount Harking Driver's Signature	Date
Noted Discrepancies:	22000
Inspected & Accepted (except as noted above) By: Earthtec Environmental, Inc.	
Accepted By: Clyclo Jos Date: 7 29 03	

25-19

Phone #: 919-774-4517

# Earthree Environmental, Inc. Post Office Box 130

Sanford, North Carolina 27331

Fax #: 919-774-6415

NON-HAZAKDOUS	AALINE TO TATE THE STATE OF THE
Project Number:	Load Number
Consultant:	Contact: Rob livermon
Geologix, Ivr.	Phone: 919-859-4544
Generator:. City of Raleigh	Contact: Greg Pittman  Phone: 919-890-3087
	Phone: 919-890-3087
Transporter:	Contact:
,	
	Phone:
Destination: Barthtee Environmental, Inc.	Contact: Scott Keller
3145 Rosser Road, BearCreek, NC 27207	Phone: 919-774-4517 or 919/770-4258
Waste Description:	Waste Origination: 500 5. Blowt Si
Gas contaminated soil	Roleigh, NC
Truck #: 1, 1 H-12	Gross Weight: 74720
Control of the Contro	Tare Weight: 33600
	Net Weight: 51/20

Net Weight: 5 1/20
GENERATOR'S CERTIFICATION: I certify that the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of HAZARDOUS WASTE.  [Color]   T 30/03
Generator / Agent Signature Title Date
Acknowledgment of Receipt of Material:  Driver's Signature  Date
Noted Discrepancies:
Inspected & Accepted (except as noted above) By: Earthtec Environmental, Inc.  Accepted By: Date: 25.56

Phone #: 919-774-4517

Earthtec Environmental, Inc. Post Office Box 130 Sanford, North Carolina 27331

Fax # : 919-774-6415

NON-HAZARDOUS	WASTE MANIFEST
Project Number:	Load Number:
Consultant:.	Contact:
Geologix, The.	
•	Phone:
Generator: City of Raleigh	Contact:
City of Karry	
	Phone:
Transporter:	Contact:
	- J
	Phone:
Destination: Earthtec Environmental, Inc.	Contact: Scott Keller
3145 Rosser Road, BearCreek, NC 27207	Phone: 919-774-4517 or 919/770-4258
Waste Description;	Waste Origination:
Truck#: DIB SWH13	Gross Weight: 179240
	Tare Weight: 23/00
	Net Weight: (140

	Type II Cigne.	5 (0)	***************************************
GENERATOR'S CERTIFICATION: I certify	y that the materials describe	ed above on this m	anifest are not
subject to federal regulations for reporting pr	oper disposal of HAZARDO	)US WASTE.	1 / ) -
Vitint has	Il un	201	7/30/0
Generator / Agent Signature	Title		Date
The state of the s	1 how - 14	nikre	7-200301
Acknowledgment of Receipt of Materia	Driver's Signature	<u>1000</u>	Date
Noted Discrepancies:			
Inspected & Accepted except as noted	above) By: Earthtec Env	ironmental, Inc.	
Accepted By:	Date:		
		to the control of the	$\sim 20$

# **APPENDIX F**

**Chain-of-Custody Records** 

Chain-of-Custody Records

**UST Closure Samples** 

<u> </u>	250	Phone
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2500 Gate Way Centre Blvd., Suite 300	<b>SeoChem</b> , Incorporated
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2500	<b>je</b> c

	., Suite 300	90
or of the first	Way Centre Blvd., Suite 300	prieville NC 27560
)	Wa)	rri

# Morrisville, NC 27560 9: (919) 460-8093 • Fax: (919) 460-0167

# **Chain of Custody Record**

PROJECT SITE NUMBER	#0d	/0"/6//	/ / GEOCHEM PROJECT #	
SITE NAME CALL OF KOL	Kaleigh at	ONTAINI OCATIOI	DATE DUE	<u> </u>
(Signature)	<b>"</b> ""		VERBALFAXHARDCOPY 859-4544	
FIELD TURNAROUND SA	SAMPLE DATE AND TIME COLLECTED		L PRESERVATIONS/NOTES (for	LAB ID NO. (for lab use only)
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				45
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COMPLIANCE SAMPLES? Y	N WHAT AGENCY?	UST Section Rateigh &	Secu	
RECINQUISHED BY:	DATE TIME RE	RECEIVED BY: DATE TIME	RÉLINQUISHED BY: D/	DATE TIME

This Chain of Custody is considered a written contract to perform the services requested in the analyses section of this document.

Chain-of-Custody Records

Post-Excavation Samples

== GeoChem, Incorporated =	2500 Gate Way Centre Blvd., Suite 300 Morrisville, NC 27560 Phone: (919) 460-8093 • Fax: (919) 460-0167
out To:	Gellogia Williag Ring Sall Deng Williag Ring Kalleigh Mc - Thele

Bill To:

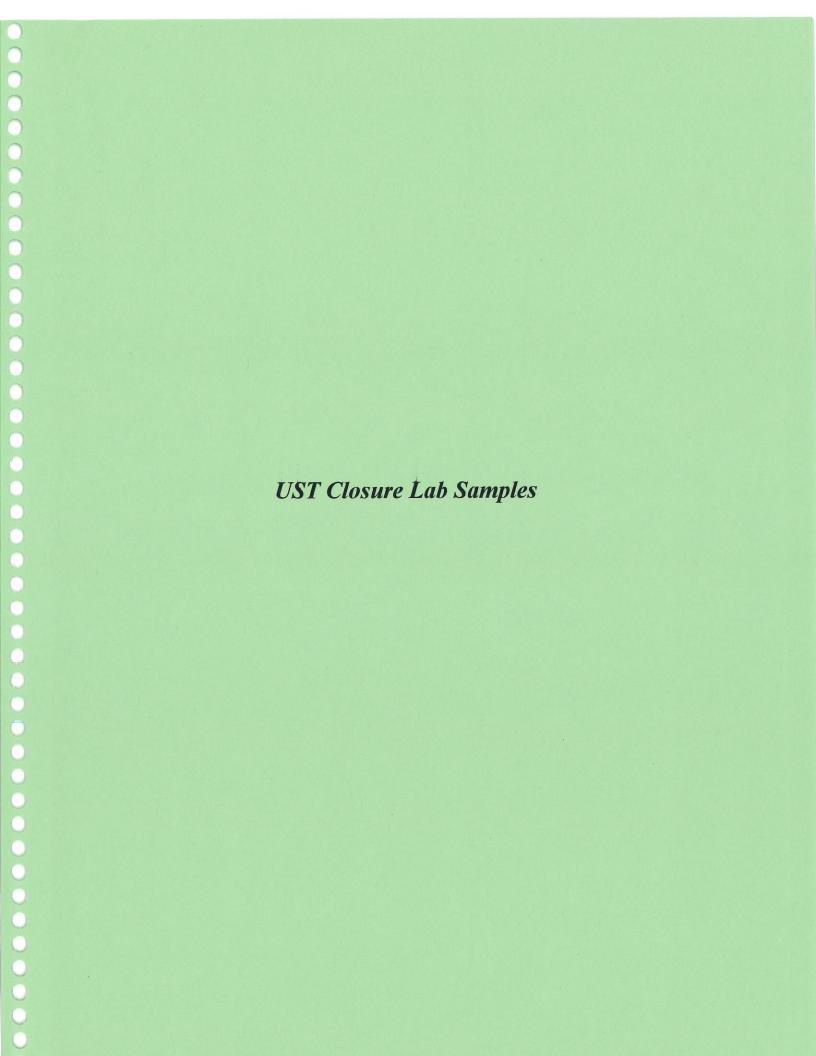
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SITE NAME  COLLECTED BY (Signature)  SAMPLE ID IN DAYS MATRIX TIME COLLE  SAMPLE ID IN DAYS MATRIX  SAMPLE ID IN DAYS  COMPLIANCE SAMPLES?  Y N WHAT AGENCY?	PROJECT SITE NUMBER	NUMBER		#0d		N IEBS		1	47	ANALYSES			GEOCHEM PROJECT #		
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SAMPLE ID   TURNAROUND   SAMPLE   TURE COLLECTED   SAMPLE   TURE COLLECTED   SAMPLE   TURE COLLECTED   SAMPLE   TURE COLLECTED   SAMPLE	COLLECTED B	V (Signature)	J. G. C. Saries, Saries	1		O. OF C PER L						// //	ERBALFAXHARDCOPY 859-4544		
St WAND   St Start   Place   St	FIELD SAMPLE ID	TURNAROUND IN DAYS		<u> </u>	TE AND OLLECTED	N				<u></u>	<u></u>		PRESERVATIONS/NOTES	LAB II (for lab u	NO. ie only)
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This Chain of Custody is considered a written contract to perform the services requested in the analyses section of this document.

## **APPENDIX G**

Laboratory Analytical Records/Data



# GeoChem, Incorporated ==

### Environmental Laboratories

### Certified Analytical Laboratory

NC # 37745 ,NC # 336, NC # 461, EPA ID # 155

Client Project Manager

Robert Livermon

Site Name:

City of Raleigh 500 S. Blount St.

GeoLogix

5316 Deep Valley Run

Raleigh

NC 27606

Report Date

Monday, August 11, 2003

*PO* #

Date Received in lab:

Saturday, August 02, 2003

# GCI Project #: 0308-001 Summary of requested analytical work

Sample type code #s :	1 = solid samples;	2 = liquid samp	oles; 3 = Air samples;	4 = sludges/unknowns
Field Number: Dispenser-SE	Lab ID 948	Sample Type: 1	Date Analyzed: 8/7/03	for 5030 soil
Date Sampled 7/28/03			Proper Preservation	Yes
Field Number: Dispenser-NW	Lab ID 949	Sample Type: 1	Date Analyzed: 8/7/03	for 5030 soil
Date Sampled 7/28/03			Proper Preservation	Yes
Field Number: Gas UST Stockpile	Lab ID 950	Sample Type: 1	Date Analyzed: 8/7/03	for 5030 soil
Date Sampled 7/28/03			Proper Preservation	Yes
Field Number: Gas UST Pipeline	Lab ID 951	Sample Type: 1	Date Analyzed: 8/7/03	for 5030 soil
Date Sampled 7/28/03			Proper Preservation	Yes
Field Number: North UST-E	Lab ID 952	Sample Type: 1	Date Analyzed: 8/7/03	for 5030 soil
Date Sampled 7/28/03			Proper Preservation	Yes
Field Number: North UST-W	Lab ID 953	Sample Type: 1	Date Analyzed: 8/7/03	for 5030 soil
Date Sampled 7/28/03			Proper Preservation	Yes
Field Number: South UST-E	Lab ID 954	Sample Type: 1	Date Analyzed: 8/7/03	for 5030 soil
Date Sampled 7/28/03			Proper Preservation	Yes
Field Number: South UST-W	Lab ID 955	Sample Type: 1	Date Analyzed: 8/7/03	for 5030 soil
Date Sampled 7/28/03			Proper Preservation	Yes
Field Number: Used Oil-W	Lab ID 956	Sample Type: 1	Date Analyzed: 8/5/03	for 3550
Date Sampled 7/28/03	<b>\</b>		Proper Preservation	Yes

Here by certify that I have Reviewed and approve this data set

2500 Gate Way Centre Blvd., Suite 300 • Morrisville, NC 27560 Telephone: 919-460-8093 • FAX: 919-460-0167

# GeoChem, Incorporated =

### Environmental Laboratories

### Certified Analytical Laboratory

NC # 37745 ,NC # 336, NC # 461, EPA ID # 155

Client Project Manager

Robert Livermon

Site Name:

City of Raleigh 500 S. Blount St.

GeoLogix

5316 Deep Valley Run

Raleigh

NC 27606

Report Date

Monday, August 11, 2003

**PO** #

Date Received in lab:

Saturday, August 02, 2003

# GCI Project #: 0308-001 Summary of requested analytical work

Sample type code #s :	1 = solid samples;	2 = liquid sample	es; 3 = Air samples;	4 = sludges/unknowns
Field Number: Used Oil-W	Lab ID 956	Sample Type: 1	Date Analyzed: 8/7/03	for 5030 soil
Date Sampled 7/28/03			Proper Preservation	Yes
Field Number: Used Oil-W	Lab ID 956	Sample Type: 1	Date Analyzed: 8/8/03	for Cr by Fl
Date Sampled 7/28/03			Proper Preservation	Yes
Field Number: Used Oil-W	Lab ID 956	Sample Type: 1	Date Analyzed: 8/8/03	for Pb by Fl
Date Sampled 7/28/03			Proper Preservation	Yes
Field Number: Used Oil-E	Lab ID 957	Sample Type: 1	Date Analyzed: 8/5/03	for 3550
Date Sampled 7/28/03			Proper Preservation	Yes
Field Number: Used Oil-E	Lab ID 957	Sample Type: 1	Date Analyzed: 8/7/03	for 5030 soil
Date Sampled 7/28/03			Proper Preservation	Yes
Field Number: Used Oil-E	Lab ID 957	Sample Type: 1	Date Analyzed: 8/8/03	for Cr by Fl
Date Sampled 7/28/03			Proper Preservation	Yes
Field Number: Used Oil-E	Lab ID 957	Sample Type: 1	Date Analyzed: 8/8/03	for Pb by Fl
Date Sampled 7/28/03			Proper Preservation	Yes
Field Number: Used Oil-Stockpile	Lab ID 958	Sample Type: 1	Date Analyzed: 8/5/03	for 3550
Date Sampled 7/28/03		-	Proper Preservation	Yes
Field Number: Used Oil-Stockpile	Lab ID 958	Sample Type: 1	Date Analyzed: 8/8/03	for 5030 soil
Date Sampled 7/28/03	$\sim$		Proper Preservation	Yes

Here by certify that I have Reviewed and approve this data set

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# GeoChem, Incorporated \( \exists

### Environmental Laboratories

### Certified Analytical Laboratory

NC # 37745 ,NC # 336, NC # 461, EPA ID # 155

Client Project Manager

Robert Livermon

Site Name:

City of Raleigh 500 S. Blount St.

**GeoLogix** 

5316 Deep Valley Run

Raleigh

NC 27606

Report Date

Monday, August 11, 2003

PO#

Date Received in lab:

Saturday, August 02, 2003

GCI Project #: 0308-001

### Summary of requested analytical work

Sample type code #s :	1 = solid samples;	2 = liquid sampl	les; $3 = Air samples;$	4 = sludges/unknowns
Field Number: Used Oil-Stockpile	Lab ID 958	Sample Type: 1	Date Analyzed: 8/8/03	for Cr by Fl
Date Sampled 7/28/03			Proper Preservation	Yes
Field Number: Used Oil-Stockpile	Lab ID 958	Sample Type: 1	Date Analyzed: 8/8/03	for Pb by Fl
Date Sampled 7/28/03			Proper Preservation	Yes
Field Number: Corner UST	Lab ID 959	Sample Type: 1	Date Analyzed: 8/5/03	for 3550
Date Sampled 7/28/03			Proper Preservation	Yes
Field Number: Corner UST	Lab ID 959	Sample Type: 1	Date Analyzed: 8/8/03	for 5030 soil
Date Sampled 7/28/03			Proper Preservation	Yes



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NC # 37745 , NC # 336, EPA ID # 155 Thursday, August 14, 2003

Site	Nam	e:	
·**	/ D		

City of Raleigh 500 S. Blount St.

i	ty of Raleigh 500 S. Blo	ount St.				
70	CI Project # 0308-001				Conc. in mg/kg	PQL in mg/kg
	Field ID Used Oil-W	Lab ID 956				
		Date Analyzed:	8/8/2003			
7		Cr by Fl				
** :		·		Chromium	BDL	24.968
		WAR 2 301				
:		Pb by Fl		Lead	BDL	25.215
¥.				Load	AP as as	
	Field ID Used Oil-E	Lab ID 957				
		Date Analyzed:	8/8/2003			
		Cr by Fl				
				Chromium	BDL	25.25
		Pb by Fl				
				Lead	BDL	389.031
	Field ID Used Oil-Stock	Lab ID 958				
		Date Analyzed:	8/8/2003			
		Cr by Fl				2.002
:				Chromium	BDL	24.393
į		Pb by Fl				
		•		Lead	164.4	24.393

NC # 37745 , NC # 336, EPA ID # 155 Thursday, August 14, 2003

GCI	$P_{ro}$	iect	#	0308-001
uu	E I U	$\iota$	m	0200-001

e ituite. Only by ituite	igh 500 S. Blount St.	Cone	c. in mg/kg	PQL in mg
Field ID Dispenser-SE	Lab ID 948			
	Date Analyzed: 8/7/2003	Dry Wt %:	0.8	
	Gase	oline range	17	6.2
Field ID Dispenser-NW	Lab ID 949			
	Date Analyzed: 8/7/2003	Dry Wt %:	0.81	
	Gase	oline range	BDL	6.2
Field ID Gas UST Stockpile	Lab ID 950			
	Date Analyzed: 8/7/2003	Dry Wt %:	0.83	
	Gas	oline range	13	6.0
Field ID Gas UST Pipeline	Lab ID 951		0.05	
	Date Analyzed: 8/7/2003		0.85	5.9
	Gas	oline range	17	3.5
Field ID North UST-E	Lab ID 952	*******		
	Date Analyzed: 8/7/2003		0.82	6.
	Gas	soline range	534	0.1
Field ID North UST-W	Lab ID 953	D 11/4 0/.	0.74	
	Date Analyzed: 8/7/2003			6.
	Gas	soline range	99	•
Field ID South UST-E	Lab ID 954	2 Dani 11/4 04 s	0.84	
	Date Analyzed: 8/7/2003			5.9
	Gas	soline range	557	
Field ID South UST-W	Lab ID 955	3 Dry Wt %:	0.77	
	Date Analyzed: 8/7/2003	·		6.
	Ga	soline range	738	
Field ID Used Oil-W	Lab ID 956 Date Analyzed: 8/5/200.	3 Dry Wt %:	· 0.70	
				6.
		esel range	432	6.
	Ga	soline range	209	<b>.</b>
Field ID Used Oil-E	Lab ID 957	12 D.m. 184 02	· 0.78	
	Date Analyzed: 8/5/200	3 Dry Wt %.	225	6.
				0.

NC # 37745 , NC # 336, EPA ID # 155 Monday, August 11, 2003

S	ite Name: City of Raleiş	gh 500 S. Bloi	ınt St.	Cone	c. in mg/kg	PQL in	. mg/kg
7	Field ID Used Oil-Stockpile	Lab ID 958 Date Analyzed:	8/5/03	Dry Wt %:	0.82		
			Diesel	range	175		6.1
			Gasoli	ine range	88		6.1
	Field ID Corner UST	Lab ID 959 Date Analyzed:	8/5/03	Dry Wt %:	0.76		
			Diesel	range	1,210		6.6
•			Gasol	ine range	1,767		32.8

# GeoChem Incorporated Quality Control Results

NC # 37745 , NC # 336, EPA ID # 155 Monday, August 11, 2003

Cr by Fl	Percent Recovery	lowest detect @ ideal conditions  MDL. in  mg/kg
Chromium	100	0.5
Lead	98	0.015

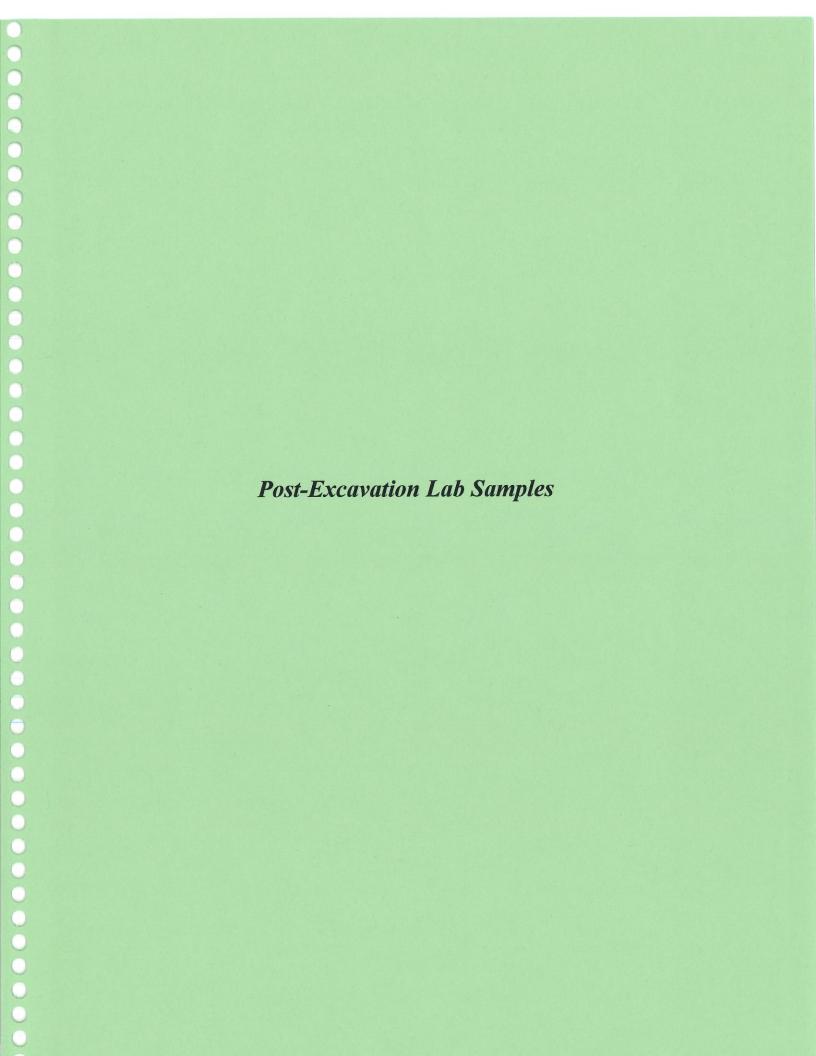
# GeoChem Incorporated Quality Control Results

NC # 37745 , NC # 336, EPA ID # 155

### CI Project # 0308-001

Monday, August 11, 2003

Date Analyzed: 8/7/03	Dry Wt %: 0.85	Percent Recovery	Lab Blank	MDL. in mg/kg 1.88
	Gasoline range	88	Ü	
	7.07.07.079	Percent Recovery	Lab Blank	MDL. in mg/kg
Date Analyzed: 8/5/03	Dry Wt %: 0.78  Diesel range	79	0	2.5



# GeoChem, Incorporated

### Laboratories Environmental

### Certified Analytical Laboratory

NC # 37745 ,NC # 336, NC # 461, EPA ID # 155

Client Project Manager Robert H. Livermon, Jr.

Site Name: S. Blount St.

Geologix 5316 Deep Valley Run NC 27606 Raleigh

Report Date Tuesday, August 26, 2003 PO # Date Received in lab: Monday, August 04, 2003

GCI Project #: 0308-003 Summary of requested analytical work

Sample type code #s :	1 = solid samples;	2 = liquid sampl	les; 3 = Air samples;	4 = sludges/unknowns
Field Number: West Wall-N	Lab ID 962	Sample Type: 1	Date Analyzed: 8/8/03	for 8260 soil
Date Sampled 7/30/03			Proper Preservation	Yes
Field Number: West Wall-N	Lab ID 962	Sample Type: 1	Date Analyzed: 8/5/03	for VPH soil
Date Sampled 7/30/03			Proper Preservation	Yes
Field Number: West Wall-S	Lab ID 963	Sample Type: 1	Date Analyzed: 8/8/03	for 8260 soil
Date Sampled 7/30/03			Proper Preservation	Yes
Field Number: West Wall-S	Lab ID 963	Sample Type: 1	Date Analyzed: 8/11/03	for 8270 BN soil
Date Sampled 7/30/03			Proper Preservation	Yes
Field Number: West Wall-S	Lab ID 963	Sample Type: 1	Date Analyzed: 8/6/03	for EPH soil
Date Sampled 7/30/03			Proper Preservation	Yes
Field Number: West Wall-S	Lab ID 963	Sample Type: 1	Date Analyzed: 8/5/03	for VPH soil
Date Sampled 7/30/03			Proper Preservation	Yes
Field Number: North Wall	Lab ID 964	Sample Type: 1	Date Analyzed: 8/8/03	for 8260 soil
Date Sampled 7/30/03			Proper Preservation	Yes
Field Number: North Wall	Lab ID 964	Sample Type: 1	Date Analyzed: 8/11/03	for 8270 BN soil
Date Sampled 7/30/03			Proper Preservation	Yes
Field Number: North Wall	Lab ID 964	Sample Type: 1	Date Analyzed: 8/6/03	for EPH soil
Date Sampled 7/30/03	$\sim$		Proper Preservation	Yes

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# GeoChem, Incorporated

### Environmental Laboratories

### Certified Analytical Laboratory

NC # 37745 ,NC # 336, NC # 461, EPA ID # 155

Client Project Manager Robert H. Livermon, Jr. Site Name:

S. Blount St.

Geologix 5316 Deep Valley Run Raleigh NC 27606 Report Date
Tuesday, August 26, 2003
PO #
Date Received in lab:
Monday, August 04, 2003

# GCI Project #: 0308-003 Summary of requested analytical work

Sample type code #s :	1 = solid samples;	2 = liquid samples;	3 = Air samples;	4 = sludges/unknowns
Field Number: North Wall	Lab ID 964	Sample Type: 1 Do	ate Analyzed: 8/5/03	for VPH soil
Date Sampled 7/30/03		Pro	oper Preservation	Yes
Field Number: East Wall-N	Lab ID 965	Sample Type: 1 Do	ate Analyzed: 8/8/03	for 8260 soil
Date Sampled 7/30/03		Pr	oper Preservation	Yes
Field Number: East Wall-N	Lab ID 965	Sample Type: 1 Do	ate Analyzed: 8/5/03	for VPH soil
Date Sampled 7/30/03		Pr	oper Preservation	Yes
Field Number: East Wall-S	Lab ID 966	Sample Type: 1 Da	ate Analyzed: 8/8/03	for 8260 soil
Date Sampled 7/30/03		Pr	oper Preservation	Yes
Field Number: East Wall-S	Lab ID 966	Sample Type: 1 Do	ate Analyzed: 8/5/03	for VPH soil
Date Sampled 7/30/03		Pro	oper Preservation	Yes
Field Number: South Wall	Lab ID 967	Sample Type: 1 Da	ate Analyzed: 8/8/03	for 8260 soil
Date Sampled 7/30/03		Pr	oper Preservation	Yes
Field Number: South Wall	Lab ID 967	Sample Type: 1 Da	ate Analyzed: 8/11/03	for 8270 BN soil
Date Sampled 7/30/03		Pro	oper Preservation	Yes
Field Number: South Wall	Lab ID 967	Sample Type: 1 Da	ate Analyzed: 8/6/03	for EPH soil
Date Sampled 7/30/03		$P_{T}$	oper Preservation	Yes
Field Number: South Wall	Lab ID 967	Sample Type: 1 Da	ate Analyzed: 8/5/03	for VPH soil
Date Sampled 7/30/03	$\sim$	Pr	oper Preservation	Yes

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# GeoChem, Incorporated

### Environmental Laboratories

### Certified Analytical Laboratory

NC # 37745 ,NC # 336, NC # 461, EPA ID # 155

Client Project Manager

Robert H. Livermon, Jr.

Site Name:

S. Blount St.

Geologix

5316 Deep Valley Run

Raleigh

NC 27606

Report Date

Tuesday, August 26, 2003

PO#

Date Received in lab:

Monday, August 04, 2003

GCI Project #: 0308-003

### Summary of requested analytical work

Sample type code #s:	1 = solid samples;	2 = liquid samp	des; $3 = Air samples;$	4 = sludges/unknowns
Field Number: Exp. Bottom	Lab ID 968	Sample Type: 1	Date Analyzed: 8/8/03	for 8260 soil
Date Sampled 7/30/03			Proper Preservation	Yes
Field Number: Exp. Bottom	Lab ID 968	Sample Type: 1	Date Analyzed: 8/5/03	for VPH soil
Date Sampled 7/30/03			Proper Preservation	Yes

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Site Name: S. Blount St. NC # 37745 , NC # 336, EPA ID # 155 Tuesday, August 26, 2003

I Project # 0308-003			
ield ID West Wall-N	Lab ID 962	Conc. in ug/kg	nor .
Dry wt % 82.9	Date Analyzed: 8/8/03	Cont. in ug/kg	PQL in ug/kg
8260 soil	Lab ID 962		
	MTBE	BDL	5.0
	IPE	BDL	5.0
	n-Butylbenzene	BDL	5.0
	Dichlorodifluoromethane	BDL	5.0
	Chloromethane	BDL	5.0
	Vinyl Chloride	BDL	5.0
	Bromomethane	BDL	5.0
	Chloroethane	BDL	5.0
	Trichlorofluoromethane	BDL	5.0
	Acrolein	BDL	24.9
	Acetone	BDL	24.9
	1,1-Dichloroethene	BDL	5.0
	Iodomethane	BDL	5.0
	Carbon Disulfide	BDL	5.0
	Methylene Chloride	BDL	5.0
	Acrylonitrile	BDL	5.0
	trans-1,2-Dichloroethene	BDL	5.0
	1,1-Dichloroethane	BDL	5.0
	Vinyl Acetate	BDL	5.0
	2,2-Dichloropropane	BDL	5.0
	cis-1,2-Dichloroethene	BDL	5.0
	2-Butanone	BDL	24.9
	Bromochloromethane	BDL	5,0
	Chloroform	BDL	5.0
	1,1,1-Trichloroethane	BDL	5.0
	1,1-Dichloropropene	BDL	5.0
	Carbon Tetrachloride	BDL	5.0
	Benzene	BDL	5.0
	1,2-Dichloroethane	BDL	. 5.0
	Trichloroethene	BDL	5.0
	1,2-Dichloropropane	BDL	5.0
	Dibromomethane	BDL	5.0
	Bromodichloromethane	BDL	5.0
	2-Chloroethylvinylether	BDL	5.0
	cis-1,3-Dichloropropene	BDL	5.0
	4-Methyl-2-pentanone	BDL	5.0
	Toluene	BDL	5.0
	trans-1,3-Dichloropropene	BDL	5.0
	1,1,2-Trichloroethane	BDL	5.0
	Ethylmethacrylate	BDL	5.0
	Tetrachloroethene	BDL	5.0
	1,3-Dichloropropane	BDL	5.0
			5.0

Site Name: S. Blount St. NC # 37745 , NC # 336, EPA ID # 155 Tuesday, August 26, 2003

# GCI Project # 0308-003 Field ID West Wall-N

Dry wt % 82.9

	Lab ID 962		
1	Date Analyzed: 8/8/03	Conc. in ug/kg	PQL in ug/kg
	2-Hexanone	BDL	9.9
	Chlorodibromomethane	BDL	5.0
	1,2-Dibromoethane	BDL	5.0
	Chlorobenzene	BDL	5.0
	1,1,1,2-Tetrachloroethane	BDL	5.0
	Ethylbenzene	BDL	5.0
	m,p-Xylene	10.0	5.0
	o-Xylene	7.3	5,0
	Styrene	BDL	5.0
	Bromoform	BDL	5.0
	Isopropylbenzene	BDL	5.0
	Bromobenzene	BDL	5.0
	1,2,3-Trichloropropane	BDL	5.0
	1,1,2,2-Tetrachloroethane	BDL	5.0
	n-Propylbenzene	6.1	5.0
	2-Chlorotoluene	BDL	5.0
	1,4-Dichloro-2-butene	BDL	5.0
	4-Chlorotoluene	BDL	5.0
	1,3,5-Trimethylbenzene	29.8	5.0
	tert-Butylbenzene	BDL	5.0
	1,2,4-Trimethylbenzene	85.4	5.0
	sec-Butylbenzene	BDL	5.0
	1,3-Dichlorobenzene	BDL	5.0
	1,4-Dichlorobenzene	BDL	5.0
	4-Isopropyltoluene	BDL	5,0
	1,2-Dichlorobenzene	BDL	5.0
	1,2-Dibromo-3-chloropropan	BDL	5.0
	1,2,4-Trichlorobenzene	BDL	5.0
	Naphthalene	62.7	5.0
	Hexachlorobutadiene	BDL	5.0
	1,2,3-Trichlorobenzene	BDL	5.0

Site Name: S. Blount St. NC # 37745 , NC # 336, EPA ID # 155 Tuesday, August 26, 2003

eld ID West Wall-S	Lab ID 963		
Dry wt % 81.6	Date Analyzed: 8/8/03	Conc. in ug/kg	PQL in ug/kg
8260 soil	Lab ID 963		
	MTBE	BDL	4.9
	IPE	BDL	4.9
	n-Butylbenzene	BDL	4.9
	Dichlorodifluoromethane	BDL	4.9
	Chloromethane	BDL	4.9
	Vinyl Chloride	BDL	4.9
	Bromomethane	BDL	4.9
	Chloroethane	BDL	4.9
	Trichlorofluoromethane	BDL	4.9
	Acrolein	BDL	24.7
	Acetone	BDL	24.7
	1,1-Dichloroethene	BDL	4.9
	Iodomethane	BDL	4.9
	Carbon Disulfide	BDL	4.9
	Methylene Chloride	BDL	4.9
	Acrylonitrile	BDL	4.9
	trans-1,2-Dichloroethene	BDL	4.9
	1,1-Dichloroethane	BDL	4.9
	Vinyl Acetate	BDL	4.9
	2,2-Dichloropropane	BDL	4,9
	cis-1,2-Dichloroethene	BDL	4,9
	2-Butanone	BDL	24.7
	Bromochloromethane	BDL	4.9
	Chloroform	BDL	4.9
	1,1,1-Trichloroethane	BDL	4.9
	1,1-Dichloropropene	BDL	4.9
	Carbon Tetrachloride	BDL	4.9
	Benzene	BDL	4.9
	1,2-Dichloroethane	BDL	4.9
	Trichloroethene	BDL	4.9
	1,2-Dichloropropane	BDL	4.9
	Dibromomethane	BDL	4.9
	Bromodichloromethane	BDL	4.9
	2-Chloroethylvinylether	BDL	4.9
	cis-1,3-Dichloropropene	BDL	4.9
	4-Methyl-2-pentanone Toluene	BDL	4.9
		BDL	4.9
	trans-1,3-Dichloropropene	BDL	4.9
	1,1,2-Trichloroethane	BDL	4.9
	Ethylmethacrylate Tetrachloroethene	BDŁ	4.9
	1,3-Dichloropropane	BDL	4.9
	1,5-Dismoropropane	BDL	4.9

Site Name: S. Blount St. NC # 37745 , NC # 336, EPA ID # 155 Tuesday, August 26, 2003

ield ID West Wall-S	Lab ID 963		
Dry wt % 81.6	Date Analyzed: 8/8/03	Conc. in ug/kg	PQL in ug/kg
	2-Hexanone	BDL	9.9
	Chlorodibromomethane	BDL	4.9
	1,2-Dibromoethane	BDL	4.9
	Chlorobenzene	BDL	4.9
	1,1,1,2-Tetrachloroethane	BDL	4.9
	Ethylbenzene	BDL	4.9
	m,p-Xylene	7.5	4.9
	o-Xylene	BDL	4.9
	Styrene	BDL	4.9
	Bromoform	BDL	4.9
	Isopropylbenzene	BDL	4.9
	Bromobenzene	BDL	4.9
	1,2,3-Trichloropropane	BDL	4.9
	1,1,2,2-Tetrachloroethane	BDL	4.9
	n-Propylbenzene	BDL	4.9
	2-Chlorotoluene	BDL	4.9
	1,4-Dichloro-2-butene	BDL	4.9
	4-Chlorotoluene	BDL	4.9
	1,3,5-Trimethylbenzene	20.3	4.9
	tert-Butylbenzene	BDL	4.9
	1,2,4-Trimethylbenzene	64.3	4.9
	sec-Butylbenzene	BDL	4.9
	1,3-Dichlorobenzene	BDL	4.9
	1,4-Dichlorobenzene	BDL	4.9
	4-Isopropyltoluene	$\mathbf{BDL}$	4.9
	1,2-Dichlorobenzene	BDL	4.9
	1,2-Dibromo-3-chloropropan	BDL	4.9
	1,2,4-Trichlorobenzene	BDL	4.9
	Naphthalene	53.8	4.9
	Hexachlorobutadiene	BDL	4.9
	1,2,3-Trichlorobenzene	BDL	4.9
		End of 8260 soil	
8270 BN soil	Lab ID 963		
	n-Nitrosodimethylamine	BDL	100.0
	Aniline	BDL	100.0
	Bis(2-chloroethyl)ether	BDL	100.0
	1,3-Dichlorobenzene	BDL	100.0
	1,4-Dichlorobenzene	BDL	100.0
	1,2-Dichlorobenzene	BDL	100.0
	Benzyl Alcohol	BDL	100.0
	Bis(2-chloroisopropyl)ether	BDL	100.0
	Hexachioroethane	BDL	100.0
	n-Nitrosodipropylamine	BDL	100.0
			100.0

Site Name: S. Blount St. NC # 37745 , NC # 336, EPA ID # 155 Tuesday, August 26, 2003

### **GCI**

GCI Project # 0308-003	•		
Field ID West Wall-S	Lab ID 963		
Dry wt % 81.2	Date Analyzed: 8/11/03	Conc. in ug/kg	PQL in ug/kg
	Nitrobenzene	BDL	100.0
	Isophorone	BDL	100.0
	Bis(2-chloroethoxy)methane	BDL	100.0
	1,2,4-Trichlorobenzene	BDL	100.0
	Naphthalene	BDL	100.0
	Benzoic acid	BDL	100.0
	4-Chloroaniline	BDL	100.0
	Hexachlorobutadiene	BDL	100.0
	2-Methylnaphthalene	BDL	100.0
	Hexachlorocyclopentadiene	BDL	100.0
	2-Chloronaphthalene	BDL	100.0
	2-Nitroaniline	BDL	100.0
	Acenaphthylene	BDL	100.0
	Dimethylphthalate	BDL	100.0
	2,6-Dinitrotoluene	BDL	100.0
	Acenaphthene	$\mathbf{BDL}$	100.0
	3-Nitroaniline	BDL	100.0
	Dibenzofuran	BDL	100.0
	2,4-Dinitrotoluene	BDL	100.0
	Fluorene	BDL	100.0
	4-Chlorophenyl Phenyl Ether	BDL	100.0
	Diethylphthalate	BDL	100.0
	4-Nitroaniline	BDL	100.0
	n-Nitrosodiphenylamine	BDL	100.0
	4-Bromophenyl Phenyl Ether	BDL	100.0
	Hexachlorobenzene	BDL	100.0
	Benzidine	BDL	100.0
	Phenanthrene	BDL	100.0
	Anthracene	BDL	100.0
	Di-n-butylphthalate	BDL	100.0
	Fluoranthene	BDL	100.0
	Pyrene	BDL	100.0
	Butyl Benzyl Phthalate	BDL	100.0
	Benzo(a)anthracene	BDL	100.0
	3,3'-Dichlorobenzidine	BDL	100.0
	Chrysene	BDL	100.0
	Bis(2-ethylhexyl)phthalate	BDL	100.0
	Di-n-octylphthalate	BDL	100.0
	Benzo(b)fluoranthene	BDL	100.0
	Benzo(k)fluoranthene	BDL	100.0
	Benzo(a)pyrene	BDL	100.0
	Indeno(1,2,3-cd)pyrene	BDL	100.0

Dibenz(a,h)anthracene

 $\mathbf{BDL}$ 

100.0

Site Name:

NC # 37745 , NC # 336, EPA ID # 155

S. Blount St.

Tuesday, August 26, 2003

GCI Project # 0308-003

Field ID West Wall-S

Lab ID 963

Dry wt % 81.2

Date Analyzed: 8/11/03

Conc. in ug/kg

PQL in ug/kg

Benzo(g,h,i)perylene

BDL

100.0

Azobenzene

BDL

100.0

End of 8270 BN soil

Site Name: S. Blount St. NC # 37745 , NC # 336, EPA ID # 155 Tuesday, August 26, 2003

ield ID North Wall	Lab ID 964		
Dry wt % 76.8	Date Analyzed: 8/8/03	Conc. in ug/kg	PQL in ug/kg
8260 soil	Lab ID 964		
	MTBE	BDL	4.0
	IPE	BDL	4.9
	n-Butylbenzene	BDL	4.9
	Dichlorodifluoromethane	BDL	4.9
	Chloromethane	BDL	4.9 4.9
	Vinyl Chloride	BDL	4.9
	Bromomethane	BDL	4.9
	Chloroethane	BDL	4.9
	Trichlorofluoromethane	BDL	4.9
	Acrolein	BDL	24.7
	Acetone	BDL	24.7
	1,1-Dichloroethene	BDL	4.9
	Iodomethane	BDL	4.9
	Carbon Disulfide	BDL	4.9
	Methylene Chloride	BDL	4.9
	Acrylonitrile	BDL	4.9
	trans-1,2-Dichloroethene	BDL	4.9
	1,1-Dichloroethane	BDL	4.9
	Vinyl Acetate	BDL	4.9
	2,2-Dichloropropane	BDL	4.9
	cis-1,2-Dichloroethene	BDL	4.9
	2-Butanone	BDL	24.7
	Bromochloromethane	BDL	4.9
	Chloroform	BDL	4.9
	1,1,1-Trichloroethane	BDL	4.9
	1,1-Dichloropropene	BDL	4.9
	Carbon Tetrachloride	BDL	4.9
	Benzene	BDL	4.9
	1,2-Dichloroethane	BDL	4.9
	Trichloroethene	BDL	4.9
	1,2-Dichloropropane	BDL	4.9
	Dibromomethane	BDL	4.9
	Bromodichloromethane	BDL	4.9
	2-Chloroethylvinylether	BDL	4.9
	cis-1,3-Dichloropropene	BDL	4.9
	4-Methyl-2-pentanone	BDL	4.9
	Toluene	27.3	4.9
	trans-1,3-Dichloropropene	BDL	4.9
	1,1,2-Trichloroethane	BDL	4.9
	Ethylmethacrylate Tetrachloroethene	BDL	4.9
	1,3-Dichloropropane	BDL	4.9
	1,3-1/IGHIOTOPROPARE	BDL	4.9

Site Name: S. Blount St. NC # 37745 , NC # 336, EPA ID # 155

Tuesday, August 26, 2003

CI krojeci # 0506=0	03		
Field ID North Wall	Lab ID 964		
Dry wt % 76.8	Date Analyzed: 8/8/03	Conc. in ug/kg	PQL in ug/kg
	2-Hexanone	BDL	9.9
	Chlorodibromomethane	BDL	4.9
	1,2-Dibromoethane	BDL	4.9
	Chlorobenzene	BDL	4.9
	1,1,1,2-Tetrachloroethane	BDL	4.9
	Ethylbenzene	234.9	4.9
	m,p-Xylene	5,323.3	500.0
	o-Xylene	2,316.8	500.0
	Styrene	BDL	4.9
	Bromoform	BDL	4.9
	Isopropylbenzene	132.2	4.9
	Bromobenzene	BDL	4.9
	1,2,3-Trichloropropane	BDL	4.9
	1,1,2,2-Tetrachloroethane	BDL	4.9
	n-Propylbenzene	2,290.7	500.0
	2-Chlorotoluene	BDL	4.9
	1,4-Dichloro-2-butene	BDL	4.9
	4-Chlorotoluene	BDL	4.9
	1,3,5-Trimethylbenzene	6,611.9	500.0
	tert-Butylbenzene	BDL	4.9
	1,2,4-Trimethylbenzene	20,434.3	500.0
	sec-Butylbenzene	134.8	4.9
	1,3-Dichlorobenzene	BDL	4.9
	1,4-Dichlorobenzene	BDL	4.9
	4-Isopropyltoluene	142.5	4.9
	1,2-Dichlorobenzene	BDL	4.9
	1,2-Dibromo-3-chloropropan	BDL	4.9
	1,2,4-Trichlorobenzene	BDL	4.9
	Naphthalene	5,713.8	500.0
	Hexachlorobutadiene	BDL	4.9
	1,2,3-Trichtorobenzene	BDL	4.9
		End of 8260 soil	
8270 BN soil	Lab ID 964		
	п-Nitrosodimethylamine	BDL	100.0
	Aniline	BDL	100.0
	Bis(2-chloroethyl)ether	BDL	100.0
	1,3-Dichlorobenzene	BDL	100.0
	1,4-Dichlorobenzene	BDL	100.0
	1,2-Dichlorobenzene	BDL	100.0
	Benzyl Alcohol	BDL	100.0
	Bis(2-chloroisopropyl)ether	BDL	100.0
	Hexachloroethane	BDL	100.0
	n-Nitrosodipropylamine	BDL	100.0
			# =

Site Name:
S. Blount St.

NC # 37745 , NC # 336, EPA ID # 155 Tuesday, August 26, 2003

Field ID N	orth W	all	Lab ID 964		
Drv	wt %	76.8	Date Analyzed:	8/11/03	

Lab ID 964		
Date Analyzed: 8/11/03	Conc. in ug/kg	PQL in ug/kg
Nitrobenzene	BDL	100.0
Isophorone	BDL	100.0
Bis(2-chloroethoxy)methane	BDL	100.0
1,2,4-Trichlorobenzene	BDL	100.0
Naphthalene	2,277.7	100.0
Benzoic acid	BDL	100.0
4-Chloroaniline	BDL	100.0
Hexachlorobutadiene	BDL	100.0
2-Methylnaphthalene	3,865.6	100.0
Hexachlorocyclopentadiene	BDL	100.0
2-Chloronaphthalene	BDL	100.0
2-Nitroaniline	BDL	100.0
Acenaphthylene	BDL	100.0
Dimethylphthalate	BDL	100.0
2,6-Dinitrotoluene	BDL	100.0
Acenaphthene	BDL	100.0
3-Nitroaniline	BDL	100.0
Dibenzofuran	BDL	100.0
2,4-Dinitrotoluene	BDL	100.0
Fluorene	BDL	100.0
4-Chlorophenyl Phenyl Ether	BDL	100.0
Diethylphthalate	BDL	100.0
4-Nitroaniline	BDL	100.0
n-Nitrosodiphenylamine	BDL	100.0
4-Bromophenyl Phenyl Ether	BDL	100.0
Hexachlorobenzene	BDL	100.0
Benzidine	BDL	100.0
Phenanthrene	BDL	100.0
Anthracene	BDL	100.0
Di-n-butylphthalate	BDL	100.0
Fluoranthene	BDL	100.0
Ругепе	BDL	100.0
Butyl Benzyl Phthalate	BDL	100.0
Benzo(a)anthracene	BDL	100.0
3,3'-Dichlorobenzidine	BDL	100.0
Chrysene	BDL	100.0
Bis(2-ethylhexyl)phthalate	BDL	100.0
Di-n-octylphthalate	BDL	100.0
Benzo(b)fluoranthene	BDL	100.0
Benzo(k)fluoranthene	BDL	100.0
Benzo(a)pyrene	BDL	100.0
Indeno(1,2,3-cd)pyrene	BDL	100.0
Dibenz(a,h)anthracene	BDL	100.0

Site Name: S. Blount St. NC # 37745 , NC # 336, EPA ID # 155

Tuesday, August 26, 2003

GCI Project # 0308-003

Field ID North Wall

Lab ID 964

Dry wt % 76.8

Date Analyzed: 8/11/03

Conc. in ug/kg

PQL in ug/kg

Benzo(g,h,i)perylene

Azobenzene

BDL BDL

100.0 100.0

End of 8270 BN soil

Site Name: S. Blount St. NC # 37745 , NC # 336, EPA ID # 155 Tuesday, August 26, 2003

G	CI Project # 0308-003			
	Field ID East Wall-N	Lab ID 965	Come in walks	PQL in ug/kg
	Dry wt % 80.2	Date Analyzed: 8/8/03	Conc. in ug/kg	* * * * * * * * * * * * * * * * * * *
	8260 soil	Lab ID 965		
		MTBE	BDL	5.1
		IPE	BDL	5.1
* * <u>.</u>		n-Butylbenzene	BDL	5.1
		Dichlorodifluoromethane	BDL	5.1
		Chloromethane	BDL	5.1
		Vinyl Chloride	BDL	5.1
1		Bromomethane	BDL	5.1
		Chloroethane	BDL	5.1
		Trichlorofluoromethane	BDL	5.1
		Acrolein	BDL	25.4
		Acetone	BDL	25.4
		1,1-Dichloroethene	BDL	5.1
		Iodomethane	BDL	5.1
		Carbon Disulfide	BDL	5.1
		Methylene Chloride	BDL	5.1
		Acrylonitrile	BDL	5.1
		trans-1,2-Dichloroethene	BDL	5.1
:		1,1-Dichloroethane	BDL	5.1
		Vinyl Acetate	BDL	5.1
		2,2-Dichloropropane	BDL	5.1
1		cis-1,2-Dichloroethene	BDL	5.1
		2-Butanone	BDL	25.4
		Bromochloromethane	BDL	5.1
		Chloroform	BDL	5.1
		1,1,1-Trichloroethane	BDL	5.1
J		1,1-Dichloropropene	BDL	5.1
1		Carbon Tetrachloride	BDL	5.1
		Benzene	BDL	5.1
Ĵ		1,2-Dichloroethane	BDL	5.1
ŀ		Trichloroethene	BDL	5.1
:		1,2-Dichloropropane	BDL	5.1
		Dibromomethane	BDL	5.1
		Bromodichloromethane	BDL	5.1
J		2-Chloroethylvinylether	BDL	5.1
		cis-1,3-Dichloropropene	BDL	5.1
		4-Methyl-2-pentanone	BDL	5.1
1		Toluene	BDL	5.1
		trans-1,3-Dichloropropene	BDL	5.1
;		1,1,2-Trichloroethane	BDL	5.1
		Ethylmethacrylate	BDL	5.1
J		Tetrachloroethene	BDL	5.1
į		1,3-Dichloropropane	BDL	5.1
"		1,5-Dictioropropane	BUU	

Site Name: S. Blount St. NC # 37745 , NC # 336, EPA ID # 155 Tuesday, August 26, 2003

### GCI Project # 0308-003

Field ID East Wall-N	Lab ID 965		
Dry wt % 80.2	Date Analyzed: 8/8/03	Conc. in ug/kg	PQL in ug/kg
	2-Hexanone	BDL	10.1
	Chlorodibromomethane	BDL	5.1
	1,2-Dibromoethane	BDL	5.1
	Chlorobenzene	BDL	5.1
	1,1,1,2-Tetrachloroethane	BDL	5.1
	Ethylbenzene	BDL	5.1
	m,p-Xylene	8.1	5.1
	o-Xylene	BDL	5.1
	Styrene	BDL	5.1
	Bromoform	BDL	5.1
	Isopropylbenzene	BDL	5.1
	Bromobenzene	BDL	5.1
	1,2,3-Trichloropropane	BDL	5.1
	1,1,2,2-Tetrachloroethane	BDL	5.1
	n-Propylbenzene	BDL	5.1
	2-Chlorotoluene	BDL	5.1
	1,4-Dichloro-2-butene	BDL	5.1
	4-Chlorotoluene	BDL	5.1
	1,3,5-Trimethylbenzene	19.2	5.1
	tert-Butylbenzene	BDL	5.1
	1,2,4-Trimethylbenzene	35.2	5.1
	sec-Butylbenzene	BDL	5.1
	1,3-Dichlorobenzene	BDL	5.1
	1,4-Dichlorobenzene	BDL	5.1
	4-Isopropyltoluene	BDL	5.1
	1,2-Dichlorobenzene	BDL	5.1
	1,2-Dibromo-3-chloropropan	BDL	5.1
	1,2,4-Trichlorobenzene	BDL	5.1
	Naphthalene	BDL	5.1
	Hexachlorobutadiene	BDL	5.1
	1,2,3-Trichlorobenzene	BDL	5.1
		Food of 8260 - 2	

End of 8260 soil

Site Name: S. Blount St. NC # 37745 , NC # 336, EPA ID # 155 Tuesday, August 26, 2003

eld ID East Wall-S	Lab ID 966		
Dry wt % 80.2	Date Analyzed: 8/8/03	Conc. in ug/kg	PQL in ug/kg
8260 soil	Lab ID 966		
	MTBE	BDL	4.9
	IPE	BDL	4.9
	n-Butylbenzene	BDL	4.9
	Dichlorodifluoromethane	BDL	4.9
	Chloromethane	BDL	4.9
	Vinyl Chloride	BDL	4.9
	Bromomethane	BDL	4.9
	Chloroethane	BDL	4.9
	Trichlorofluoromethane	BDŁ	4.9
	Acrolein	BDL	24.7
	Acetone	BDŁ	24.7
	1,1-Dichloroethene	BDL	4.9
	Iodomethane	BDL	4.9
	Carbon Disulfide	BDL	4.9
	Methylene Chloride	BDL	4.9
	Acrylonitrile	BDL	4.9
	trans-1,2-Dichloroethene	BDL	4.9
	1,1-Dichloroethane	BDL	4.9
	Vinyl Acetate	BDL	4.9
	2,2-Dichloropropane	BDL	4.9
	cis-1,2-Dichloroethene	BDL	4.9
	2-Butanone	BDL	24.7
	Bromochloromethane	BDL	4.9
	Chloroform	BDL	4.9
	1,1,1-Trichloroethane	BDL	4.9
	1,1-Dichloropropene	BDL	4.9
	Carbon Tetrachloride	BDL	4.9
	Benzene	BDL	4.9
	1,2-Dichloroethane	BDL	4.9
	Trichloroethene	BDL	4.9
	1,2-Dichloropropane	BDL	4.9
	Dibromomethane	BDL	4.9
	Bromodichloromethane	BDL	4.9
	2-Chloroethylvinylether	BDL	4.9
	cis-1,3-Dichloropropene	BDL	4.9
	4-Methyl-2-pentanone	BDL	4.9
	Toluene	BDL	4.9
	trans-1,3-Dichloropropene	BDL	4.9
	1,1,2-Trichloroethane	BDL	4.9
	Ethylmethacrylate	BDL	4.9
	Tetrachloroethene	BDL	4.9
	1,3-Dichloropropane	BDL	4.9

Site Name: S. Blount St. NC # 37745 , NC # 336, EPA ID # 155 Tuesday, August 26, 2003

### GCI Project # 0308-003

Field ID East Wall-S	Lab ID 966		
Dry wt % 80.2	Date Analyzed: 8/8/03	Conc. in ug/kg	PQL in ug/kg
	2-Hexanone	BDL	9.9
	Chlorodibromomethane	BDL	4.9
	1,2-Dibromoethane	BDL	4.9
	Chlorobenzene	BDL	4.9
	1,1,1,2-Tetrachloroethane	BDL	4.9
	Ethylbenzene	BDL	4.9
	m,p-Xylene	BDL	4.9
	o-Xylene	BDL	4.9
	Styrene	BDL	4.9
	Bromoform	$\mathbf{BDL}$	4.9
	Isopropylbenzene	BDL	4.9
	Bromobenzene	BDL	4.9
	1,2,3-Trichloropropane	BDL	4.9
	1,1,2,2-Tetrachloroethane	BDL	4.9
	n-Propylbenzene	BDL	4.9
	2-Chlorotoluene	BDL	4.9
	1,4-Dichloro-2-butene	BDL	4.9
	4-Chlorotoluene	BDL	4.9
	1,3,5-Trimethylbenzene	5.9	4,9
	tert-Butylbenzene	BDL	4.9
	1,2,4-Trimethylbenzene	19.3	4.9
	sec-Butylbenzene	BDL	4.9
	1,3-Dichlorobenzene	BDL	4.9
	1,4-Dichlorobenzene	BDL	4.9
	4-Isopropyltoluene	BDL	4.9
	1,2-Dichlorobenzene	BDL	4.9
	1,2-Dibromo-3-chloropropan	BDL	4.9
	1,2,4-Trichlorobenzene	BDL	4.9
	Naphthalene	38.9	4.9
	Hexachlorobutadiene	BDL	4.9
	1,2,3-Trichlorobenzene	BDL	4.9
		End of 9260 1	,

Site Name: S. Blount St. NC # 37745 , NC # 336, EPA ID # 155 Tuesday, August 26, 2003

rrojeci # 0.	300-003			
eld ID South W	/all	Lab ID 967		
Dry wt %	83.8	Date Analyzed: 8/8/03	Conc. in ug/kg	PQL in ug/kg
8260 soil		Lab ID 967		
		MTBE	BDL	5.0
		IPE	BDL	5.0
		n-Butylbenzene	BDL	5.0
		Dichlorodifluoromethane	BDL	5.0
		Chloromethane	BDL	5.0
		Vinyl Chloride	BDL	5.0
		Bromomethane	BDL	5.0
		Chloroethane	BDL	5.0
		Trichlorofluoromethane	BDL	5.0
		Acrolein	BDL	25.0
		Acetone	BDL	25.0
		1,1-Dichloroethene	BDL	5.0
		Iodomethane	BDL	5.0
		Carbon Disulfide	BDL	5.0
		Methylene Chloride	BDL	5.0
		Acrylonitrile	BDL	5.0
	trans-1,2-Dichloroethene	BDL	5.0	
	1,1-Dichloroethane	BDL	5.0	
		Vinyl Acetate	BDL	5.0
		2,2-Dichloropropane	BDL	5.0
		cis-1,2-Dichloroethene	BDL	5.0
		2-Butanone	BDL	25.0
	Bromochloromethane	BDL	5.0	
		Chloroform	BDL	5.0
		1,1,1-Trichloroethane	BDL	5.0
		1,1-Dichloropropene	BDL	5.0
		Carbon Tetrachloride	BDL	5.0
	Benzene	BDL	5.0	
	1,2-Dichloroethane	BDL	5.0	
	Trichloroethene	BDL	5.0	
	1,2-Dichloropropane	BDL	5.0	
		Dibromomethane	BDL	5.0
		Bromodichloromethane	BDL	5.0
		2-Chloroethylvinylether	BDL	5.0
		cis-1,3-Dichloropropene	BDL	5.0
		4-Methyl-2-pentanone	BDL	5.0
		Toluene	BDL	5.0
		trans-1,3-Dichloropropene	BDL	5.0
		1,1,2-Trichloroethane	BDL	5.0
		Ethylmethacrylate	BDL	5.0
		Tetrachloroethene	BDL	5.0
		1,3-Dichloropropane	BDL	5.0

Site Name: S. Blount St.  $NC \, \# \, 37745$  ,  $NC \, \# \, 336, \, EPA \, ID \, \# \, 155$ 

Tuesday, August 26, 2003

#### GCI Project # 0308-003

ield ID South Wall	Lab ID 967		
Dry wt % 83.8	Date Analyzed: 8/8/03	Conc. in ug/kg	PQL in ug/kg
	2-Hexanone	BDL	10.0
	Chlorodibromomethane	BDL	5.0
	1,2-Dibromoethane	BDL	5.0
	Chlorobenzene	BDL	5.0
	1,1,1,2-Tetrachloroethane	BDL	5.0
	Ethylbenzene	BDL	5.0
	m,p-Xylene	BDL	5.0
	o-Xylene	BDL	5.0
	Styrene	BDL	5.0
	Bromoform	BDL	5.0
	Isopropylbenzene	BDL	5.0
	Bromobenzene	BDL	5.0
	1,2,3-Trichloropropane	BDL	5.0
	1,1,2,2-Tetrachloroethane	BDL	5.0
	n-Propylbenzene	BDL	5.0
	2-Chlorotoluene	BDL	5.0
	1,4-Dichloro-2-butene	BDL	5.0
	4-Chlorotoluene	BDL	5.0
	1,3,5-Trimethylbenzene	BDL	5.0
	tert-Butylbenzene	BDL	5.0
	1,2,4-Trimethylbenzene	BDL	5.0
	sec-Butylbenzene	BDL	5.0
	1,3-Dichlorobenzene	BDL	5.0
	1,4-Dichlorobenzene	BDL	5.0
	4-Isopropyltoluene	BDL	5.0
	1,2-Dichlorobenzene	BDL	5.0
	1,2-Dibromo-3-chloropropan	BDL	5.0
	1,2,4-Trichlorobenzene	BDL	5.0
	Naphthalene	BDL	5.0
	Hexachlorobutadiene	BDL	5.0
	1,2,3-Trichlorobenzene	BDL	5.0
		End of 8260 soil	
8270 BN soil	Lab ID 967		
	n-Nitrosodimethylamine	BDL	100.0
	Aniline	BDL	100.0
	Bis(2-chloroethyl)ether	BDL	100.0
	1,3-Dichlorobenzene	BDL	100.0
	1,4-Dichlorobenzene	BDL	100.0
	1,2-Dichlorobenzene	BDL	100.0
	Benzyl Alcohol	BDL	100.0
	Bis(2-chloroisopropyl)ether	BDL.	100.0
	Hexachloroethane	BDL	100.0
	n-Nitrosodipropylamine	BDL	100.0
	D # 16.0		100.0

Page # 16 for 0308-003 ug/kg data section

Site Name: S. Blount St. NC # 37745 , NC # 336, EPA ID # 155 Tuesday, August 26, 2003

#### GCI Project # 0308-003

Dry wt % 83.8

Field ID South Wall

<b>Lab ID 967</b> Date Analyzed: 8/11/03	Conc. in ug/kg	PQL in ug/kg
Nitrobenzene	BDL	100.0
Isophorone	BDL	100.0
Bis(2-chloroethoxy)methane	BDL	100.0
1,2,4-Trichlorobenzene	BDL	100.0
Naphthalene	BDL	100.0
Benzoic acid	BDL	100.0
4-Chloroaniline	BDL	100.0
Hexachlorobutadiene	BDL	100.0
2-Methylnaphthalene	BDL	100.0
Hexachlorocyclopentadiene	BDL	100.0
2-Chloronaphthalene	BDL	100.0
2-Nitroaniline	BDL	100.0
Acenaphthylene	BDL	100.0
Dimethylphthalate	BDL	100.0
2,6-Dinitrotoluene	BDL	100.0
Acenaphthene	BDL	100.0
3-Nitroaniline	BDL	100.0
Dibenzofuran	BDL	100.0
2,4-Dinitrotoluene	BDL	100.0
Fluorene	BDL	100.0
4-Chlorophenyl Phenyl Ether	BDL	100.0
Diethylphthalate	BDL	100.0
4-Nitroaniline	BDL	100.0
n-Nitrosodiphenylamine	BDL	100.0
4-Bromophenyl Phenyl Ether	BDL	100.0
Hexachlorobenzene	BDL	100.0
Benzidine	BDL	100.0
Phenanthrene	BDL	100.0
Anthracene	BDL	100.0
Di-n-butylphthalate	BDL	100.0
Fluoranthene	BDL	100.0
Pyrene	BDL	100.0
Butyl Benzyl Phthalate	BDL	100.0
Benzo(a)anthracene	BDL	100.0
3,3'-Dichlorobenzidine	BDL	100.0
Chrysene	BDL	100.0
Bis(2-ethylhexyl)phthalate	BDL	100.0
Di-n-octylphthalate	BDL	100.0
Benzo(b)fluoranthene	BDL	100.0
Benzo(k)fluoranthene	BDL	100.0
Benzo(a)pyrene	BDL	100.0
Indeno(1,2,3-cd)pyrene	BDL	100.0
		100.0

Dibenz(a,h)anthracene

BDL

100.0

Site Name: S. Blount St. NC # 37745 , NC # 336, EPA ID # 155

Tuesday, August 26, 2003

GCI Project # 0308-003

Field ID South Wall

Lab ID 967

Dry wt % 83.8

Date Analyzed: 8/11/03

Conc. in ug/kg

PQL in ug/kg

Benzo(g,h,i)perylene

BDL

100.0

Azobenzene

BDL

100.0

End of 8270 BN soil

Site Name: S. Blount St. NC # 37745 , NC # 336, EPA ID # 155 Tuesday, August 26, 2003

#### GCI Project # 0308-003

Field ID Exp. Bottom	Lab ID 968		
Dry wt % 81.3	Date Analyzed: 8/8/03	Conc. in ug/kg	PQL in ug/kg
8260 soil	Lab ID 968		
	MTBE	BDL	5.0
	IPE	BDL	5.0
	n-Butylbenzene	BDL	5.0
	Dichlorodifluoromethane	BDL	5.0
	Chloromethane	BDL	5.0
	Vinyl Chloride	BDL	5.0
	Bromomethane	BDL	5.0
	Chloroethane	BDL	5.0
	Trichlorofluoromethane	BDL	5.0
	Acrolein	BDL	25.2
	Acetone	BDL	25.2
	1,1-Dichloroethene	BDL	5.0
	Iodomethane	BDL	5.0
	Carbon Disulfide	BDL	5.0
	Methylene Chloride	BDL	5.0
	Acrylonitrile	BDL	5.0
	trans-1,2-Dichloroethene	BDL	5.0
	1,1-Dichloroethane	BDL	5.0
	Vinyl Acetate	BDL	5.0
	2,2-Dichloropropane	BDL	5.0
	cis-1,2-Dichloroethene	BDL	5.0
	2-Butanone	BDL	25.2
	Bromochloromethane	BDL	5.0
	Chloroform	BDL	5.0
	1,1,1-Trichloroethane	BDL	5.0
	1,1-Dichloropropene	BDL	5.0
	Carbon Tetrachloride	BDL	5.0
	Benzene	BDL	5.0
	1,2-Dichloroethane	BDL	5.0
	Trichloroethene	BDL	5.0
	1,2-Dichloropropane	BDL	5.0
	Dibromomethane	BDL	5.0
	Bromodichloromethane	BDL	5.0
	2-Chloroethylvinylether	BDL	5.0
	cis-1,3-Dichloropropene	BDL	5.0
	4-Methyl-2-pentanone	BDL	5.0
	Toluene	BDL	5.0
	trans-1,3-Dichloropropene	BDL	5.0
	1,1,2-Trichloroethane	BDL	5.0
	Ethylmethacrylate	BDL	5.0
	Tetrachloroethene	BDL	5.0
	1,3-Dichloropropane	BDL	5.0

Site Name: S. Blount St.  $NC \,\#\, 37745$  ,  $NC \,\#\, 336, \,\textit{EPA ID} \,\#\, 155$ 

Tuesday, August 26, 2003

# GCI Project # 0308-003 Field ID Exp. Bottom

Dry wt % 81.3

Date Analyzed: 8/8/03	Conc. in ug/kg	PQL in ug/k
2-Hexanone	BDL	10.1
Chlorodibromomethane	BDL	5.0
1,2-Dibromoethane	BDL	5.0
Chlorobenzene	BDL	5.0
1,1,1,2-Tetrachloroethane	BDL	5.0
Ethylbenzene	BDL	5.0
m,p-Xylene	BDL	5.0
o-Xylene	BDL	5.0
Styrene	BDL	5.0
Bromoform	BDL	5.0
Isopropylbenzene	BDL	5.0
Bromobenzene	BDL	5.0
1,2,3-Trichloropropane	BDL	5.0
1,1,2,2-Tetrachloroethane	BDL	5.0
n-Propylbenzene	BDL	5.0
2-Chlorotoluene	BDL	5.0
1,4-Dichloro-2-butene	BDL	5.0
4-Chlorotoluene	BDL	5.0
1,3,5-Trimethylbenzene	BDL	5.0
ert-Butylbenzene	BDL	5.0
1,2,4-Trimethylbenzene	18.0	5.0
ec-Butylbenzene	BDL	5.0
,3-Dichlorobenzene	BDL	5.0
,4-Dichlorobenzene	BDL	5.0
l-Isopropyltoluene	BDL	5.0
,2-Dichlorobenzene	BDL	5.0
,2-Dibromo-3-chloropropan	BDL	5.0
,2,4-Trichlorobenzene	BDL	5.0
Vaphthalene	10.6	5.0
Iexachlorobutadiene	BDL	5.0
,2,3-Trichlorobenzene	BDL	5.0

NC # 37745 , NC # 336, EPA ID # 155

Tuesday, August 26, 2003

GCI Project 0308-003

Site Name:

S. Blount St. Conc. in mg/kg PQL in mg/kg Field ID West Wall-S Lab ID 963 Date Extracted: 8/6/03 Date Analyzed: 8/6/03 Dry Wt %: 0.82 Analysis: EPH soil C9-C18 Aliphatics 13 12 C19-C36 Aliphatics BDL 12 C11-C22 Aromatics BDL 12 Field ID North Wall Lab ID 964 Date Extracted: 8/6/03 Date Analyzed: 8/6/03 Dry Wt %: 0.77 Analysis: EPH soil C9-C18 Aliphatics 13 C19-C36 Aliphatics 14 13 C11-C22 Aromatics 13 Field ID South Wall Lab ID 967 Date Extracted: 8/6/03 Date Analyzed: 8/6/03 Dry Wt %: 0.84 Analysis: EPH soil C9-C18 Aliphatics BDL 12 C19-C36 Aliphatics BDL 12

C11-C22 Aromatics

12

NC # 37745 , NC # 336, EPA ID # 155

GCI Project 0308-003

Tuesday, August 26, 2003

1	
Cita	Name

Site Name: S. Blount St.	Conc. in mg/kg	PQL in mg/kg
***	Lab ID 962	
Field ID West Wall-N	Date Analyzed: 8/5/03 Dry Wt %: 0.83	
Date Extracted:	VPH soil	
	C5-C8 Aliphatics BDL	12.064
•	C9-C12 Aliphatics BDL	12.064
	C9-C10 Aromatics BDL	12.064
	C) CIVILIDADIA	
Field ID West Wall-S	Lab ID 963	
Date Extracted:	Date Analyzed: 8/5/03 Dry Wt %: 0.82	
4	VPH soil	
1	C5-C8 Aliphatics BDL	12.258
	C9-C12 Aliphatics BDL	12.258
	C9-C10 Aromatics BDL	12.258
Field ID North Wall	Lab ID 964	
Date Extracted:	Date Analyzed: 8/5/03 Dry Wt %: 0.77	
	VPH soil	
	C5-C8 Aliphatics 106.0	13.015
1	<b>C9-C12 Aliphatics</b> 242.1	13.015
	C9-C10 Aromatics 144.7	13.015
Field ID East Wall-N	Lab ID 965	
Date Extracted:	Date Analyzed: 8/5/03 Dry Wt %: 0.8	
	VPH soil	
	C5-C8 Aliphatics BDL	12.476
	C9-C12 Aliphatics BDL	12.476
<b>1</b>	C9-C10 Aromatics BDL	12.476
Field ID East Wall-S	Lab ID 966	
Date Extracted:	Date Analyzed: 8/5/03 Dry Wt %: 0.8	
Date Extracted.	VPH soil	
	C5-C8 Aliphatics BDL	12.473
	C9-C12 Aliphatics BDL	12.473
	C9-C10 Aromatics BDL	12.473

NC # 37745 , NC # 336, EPA ID # 155

GCI Project 0308-003

Tuesday, August 26, 2003

Site Name:

Site Name:		
S. Blount St.	Conc. in mg/kg	PQL in mg/kg
Field ID South Wall	Lab ID 967	
Date Extracted:	Date Analyzed: 8/5/03 Dry Wt %: 0.8-	<i>t</i>
	VPH soil	
	C5-C8 Aliphatics BDL	11.931
	C9-C12 Aliphatics BDL	11.931
	C9-C10 Aromatics BDL	11.931
Field ID Exp. Bottom	Lab ID 968	
Date Extracted:	Date Analyzed: 8/5/03 Dry Wt %: 0.8.	1
	VPH soil	
	C5-C8 Aliphatics BDL	12.295
	C9-C12 Aliphatics BDL	12.295
	C9-C10 Aromatics BDL	12.295

# GeoChem Incorporated Quality Control Results

NC # 37745 , NC # 336, EPA ID # 155

GCI Project # 0308-003

Tuesday, August 26, 2003

			lowest detection @ideal conditions
	Percent Recovery	Lab Blank:	MDL. in ug/l
8270 BN soil			
1,4-Dichlorobenzene	103	0	2.96
n-Nitrosodipropylamine	98	0	4.77
1,2,4-Trichlorobenzene	91	0	2.68
Acenaphthene	107	0	6.83
2,4-Dinitrotoluene	103	0	2.48
Pyrene	136	0	3.34
	End of 82	70 BN soil	
			lowest detection @ideal conditions
	Percent Recovery	Lab Blank:	MDL. in ug/l
8260 soil			
1,1-Dichloroethene	107	0	0,88
Benzene	101	0	0.72
Trichloroethene	100	0	0.71
Toluene	99	0	0.64
Chlorobenzene	96	0	0.49

End of 8260 soil

# GeoChem Incorporated Quality Control Results

NC # 37745 , NC # 336, EPA ID # 155

### Tuesday, August 26, 2003

)308-003

EPH soil	Percent Recovery	MDL. in mg/kg
C9-C18 Aliphatics	75	1.17
C19-C36 Aliphatics	82	1.71
C11-C22 Aromatics	115	1.01

## EPH Calibration and QA/QC

Lab Certification #: 336

Calibration date: 10/15/2002

#### Calibration Ranges and Limit

Range	MDL H2O / Soil	RL H2O / Soil
C9-C18 Alphatics	0.04 mg/l / 0.49 mg/kg	0.10 mg/l / 10 mg/kg
C19-C36 Aliphatics	0.07 mg/l / 0.89 mg/kg	0.10 mg/l / 10 mg/kg
C11-C22 Aromatics	0.09 mg/l / 1.70 mg/kg	0.17 mg/l / 10 mg/kg

### **Calibration Concentration Levels**

Range	Levels	% RSD
C9-C18 Alphatics	0.03 ug/ul	1.60
Ave RF 9.17E-07	0.15 ug/ul	
	0.30 ug/ul	
	0.45 ug/ul	
	0.60 ug/ul	
C19-C36 Aliphatics	0.04 ug/ul	3.10
Ave RF 9.81E-07	0.20 ug/ul	
	0. <b>40 ug/ul</b>	
	0.60 ug/ul	
	0.80 ug/ul	
C11-C22 Aromatics	0.085 ug/ul	10.09
<b>Ave RF</b> 4.94E-07	0.42 ug/ul	
	0.85 ug/ul	
	1.27ug/ul	
	1.70 ug/ul	
Calibration Check Std Date 08-06-2003		
Range		RPD
C9-C18 Alphatics	0.30 ug/ul	2.55
C19-C36 Aliphatics	0.40 ug/ul	9.35
C11-C22 Aromatics	0.85 ug/ul	19.76

### GeoChem Incorporated Surrogate Results

NC # 37745 , NC # 336, EPA ID # 155

Thursday, August 28, 2003

			j. 8	
Test Name:	EPH soil			
	Lab ID:	963		Surrogate Recovery:
			Terphenyl	113
			Fluorobiphenyl	125
			Chlorooctadecane	110
			Bromonaphthalene	140
<u> </u>	Lab ID:	964		Surrogate Recovery:
*			Terphenyl	89
T N			Fluorobiphenyl	98
1			Chlorooctadecane	103
			Bromonaphthalene	109
	Lab ID:	967		Surrogate Recovery:
			Terphenyl	82.9
			Fluorobiphenyl	89.8
			Chlorooctadecane	85.4
			Bromonaphthalene	104

# GeoChem Incorporated Quality Control Results

NC # 37745 , NC # 336, EPA ID # 155

#### 0308-003

### Tuesday, August 26, 2003

VPH soil	Percent Recovery	MDL. in mg/kg
C5-C8 Aliphatics	94.5	0.013
C9-C12 Aliphatics	95.1	0.004
C9-C10 Aromatics	99.7	0,003

## VPH Calibration and QA/QC

Lab Certification #: 336

Calibration date: 3/21/2003

### Calibration Ranges and Limit

Range	MDL H2O / Soil	RL H2O / Soil
C5-C8 Aliphatics	0.013 mg/l / 0.13 mg/kg	0.50 mg/l / 10 mg/kg
C9-C12 Aliphatics	0.004 mg/l / 0.04 mg/kg	0.50 mg/l / 10 mg/kg
C9-C10 Aromatics	0.003 mg/l / 1.03 mg/kg	0.50 mg/l / 10 mg/kg

#### **Calibration Concentration Levels**

Range	Levels	% RSD
C5-C8 Aliphatics	0.024 mg/l	4.39
Ave RF 9.23E-06	0.12 mg/l	
2200 200 30000 000	0.60 mg/l	
	2.4 mg/l	
	6.0 mg/l	
C9-C12 Aliphatics	0.02 mg/l	8.82
<b>Ave RF</b> 9.40E-06	0.1 mg/l	
	0.50 mg/l	
	2.0 mg/l	
	5.0 mg/l	
C9-C10 Aromatics	0.004 mg/l	5.34
<b>Ave RF</b> 3.99E-06	0.02 mg/l	
	0.10 mg/l	
	0.40 mg/l	
	1.0 mg/l	
Calibration Check Std Date 08/05/2003		
Range		RPD
	3.0 mg/l	14.83
C5-C8 Aliphatics	<del>-</del>	
C9-C12 Aliphatics	2.5 mg/l	15.33
C9-C10 Aromatics	0.5 mg/l	22.12

# GeoChem Incorporated Surrogate Results

NC # 37745 , NC # 336, EPA ID # 155

GCI Project #	# <i>0308-00</i> 3	3	Thursday, August 07, 2003	
Test Name:	VPH soil			
Y	Lab ID:	962		Surrogate Recovery:
			Bromofluorobenzene-PID	82.2
i de la companya de l			Bromofluorobenzene-FID	81.8
	Lab ID:	963		· Surrogate Recovery:
			Bromofluorobenzene-PID	81.2
<b>!</b>			Bromofluorobenzene-FID	82.1
N.	Lab ID:	964		Surrogate Recovery:
			Bromofluorobenzene-PID	90
:			Bromofluorobenzene-FID	99.8
*. :	Lab ID:	965		Surrogate Recovery:
***)			Bromofluorobenzene-PID	80.7
1			Bromofluorobenzene-FID	87.7
le.v	Lab ID:	966		Surrogate Recovery:
- ]			Bromofluorobenzene-PID	80.8
. }			Bromofluorobenzene-FID	80
	Lab ID:	967		Surrogate Recovery:
			Bromofluorobenzene-PID	96.3
*			Bromofluorobenzene-FID	83.1
1 4 4 )	Lab ID:	968		Surrogate Recovery:
in die de la company de la com			Bromofluorobenzene-PID	91

Bromofluorobenzene-FID

87.9

## CAROLINA ENVIRONMENTAL LABORATORIES, LLC

#### FINAL REPORT OF ANALYSES

Earthtec Environmental, Inc.

PROJECT NAME: RaleighGeologix

Attn: Scott Keller

REPORT DATE: 08/06/03

PO Box 130

Sanford, NC 27331-0130

SAMPLE NUMBER- 43819 SAMPLE ID- CRAL-2

DATE SAMPLED- 07/30/03

DATE RECEIVED- 07/30/03 SAMPLER- Scott Keller

TIME RECEIVED- 1437

DELIVERED BY- Scott Keller

SAMPLE MATRIX- SO TIME SAMPLED- 1344 RECEIVED BY - heg

Page 1 of 1

SAMPLE PREP ANALYSIS

ANALYSIS

METHOD

DATE BY DATE BY RESULT UNITS

TCLP Lead

1311/7420 07/31/03 ERP 08/01/03 ERP 0.01113 mg/L

0.0

LRL = Lower Reporting Limit

Results are reported on a "dry weight" basis

LABORATORY DIRECTOR

Jim.

### **APPENDIX H**

**Photographs of UST Closure Activities** 



Uncovering/Pumping Out Contents of 1,000-Gallon Used Oil UST



Removing 1,000-Gallon Used Oil UST



Holes/Pitting at One End of 1,000-Gallon Used Oil UST



Tops of Two 2,000-Gallon Gasoline USTs are Uncovered



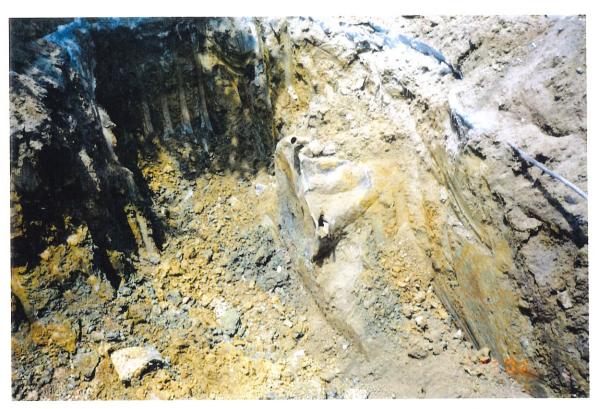
One of the 2,000-Gallon Gasoline USTs is Removed From Excavation



Holes are Indicated in Bottom of One of the 2,000-Gallon Gasoline USTs



Former Location of the Two 2,000-Gallon USTs



A 275-Gallon Kerosene (?) UST is Discovered in Excavation Near E. Cabarrus St.



View of Excavation at Former Location of Used Oil UST - Note Dark, Contaminated Soil



Contaminated Soil is Removal Where 2,000-Gallon Gasoline USTs and Dispenser Island Were Located



Excavation is Completed in Northern Region of Tract - Facing North Toward E. Cabarrus St.



Clean Fill Material Used to Backfill Excavation



Excavation Brought Back Up to Near Grade



View of Site After Completion of Excavation Backfilling

### **APPENDIX I**

Geologic Logs for Excavation/Borings

